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## OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 21.7609 Seconds  
(without alignments)  
1169.775 Million cell updates/sec

Title: US-09-597-840-5  
Perfect score: 1697  
Sequence: 1 MOSLSLSSSSLSQTPTAMALV.....QIATLVSTLQCTRNQAAA 341

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA: \*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep: \*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/PTCTUS.COMB.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1697	100.0	341	1 US-08-062-024B-5	Sequence 5, Appli
2	1697	100.0	341	1 US-08-891-254-5	Sequence 5, Appli
3	1697	100.0	341	1 US-08-756-407-5	Sequence 5, Appli
4	1697	100.0	341	2 US-08-819-539-5	Sequence 5, Appli
5	1697	100.0	341	2 US-09-030-270A-5	Sequence 5, Appli
6	1697	100.0	341	3 US-08-984-207-5	Sequence 5, Appli
7	1697	100.0	341	3 US-09-013-587-5	Sequence 5, Appli
8	1697	100.0	341	4 US-09-086-118-25	Sequence 25, Appli
9	1697	100.0	341	4 US-09-431-614-11	Sequence 11, Appli
10	1697	100.0	341	5 PCT-US94-05014-5	Sequence 5, Appli
11	1697	100.0	341	5 PCT-US96-08819-5	Sequence 5, Appli
12	138.5	8.2	338	1 US-08-891-254-1	Sequence 1, Appli
13	138.5	8.2	338	2 US-08-484-358-2	Sequence 2, Appli
14	138.5	8.2	338	2 US-08-819-539-1	Sequence 1, Appli
15	138.5	8.2	338	2 US-09-013-587-1	Sequence 1, Appli
16	138.5	8.2	338	3 US-09-118-959-2	Sequence 2, Appli
17	138.5	8.2	338	3 US-08-984-207-1	Sequence 1, Appli
18	138.5	8.2	338	3 US-09-013-587-1	Sequence 1, Appli
19	138.5	8.2	338	4 US-09-086-118-21	Sequence 21, Appli
20	138.5	8.2	338	4 US-09-431-614-1	Sequence 1, Appli
21	138.5	8.2	338	5 PCT-US96-08819-1	Sequence 1, Appli
22	127.5	7.5	344	1 US-08-891-254-7	Sequence 7, Appli
23	127.5	7.5	344	1 US-08-819-539-7	Sequence 7, Appli
24	127.5	7.5	344	2 US-09-030-270A-7	Sequence 7, Appli
25	127.5	7.5	344	2 US-08-984-207-7	Sequence 7, Appli
26	127.5	7.5	344	3 US-09-013-587-7	Sequence 7, Appli
27	127.5	7.5	344	4 US-09-086-118-27	Sequence 27, Appli

28	127.5	7.5	344	4 US-09-431-614-15	Sequence 15, Appli
29	127.5	7.5	344	5 PCT-US96-08819-7	Sequence 7, Appli
30	124.5	7.3	1036	4 US-08-543-681A-7736	Sequence 7736, Ap
31	121.5	7.2	403	2 US-08-200-724A-2	Sequence 2, Appli
32	121.5	7.2	403	2 US-09-030-270A-3	Sequence 3, Appli
33	121.5	7.2	403	3 US-08-851-376A-2	Sequence 2, Appli
34	121.5	7.2	403	3 US-08-984-207-3	Sequence 3, Appli
35	121.5	7.2	403	3 US-09-013-587-3	Sequence 3, Appli
36	121.5	7.2	403	4 US-08-086-118-23	Sequence 23, Appli
37	121.5	7.2	403	4 US-09-431-614-3	Sequence 3, Appli
38	120.5	7.1	1034	4 US-09-252-991A-26658	Sequence 26658, A
39	119.5	7.0	2763	3 US-08-496-944-2	Sequence 2, Appli
40	118	7.0	514	4 US-09-252-991A-19394	Sequence 19394, A
41	117	6.9	385	5 PCT-US93-06243-2	Sequence 2, Appli
42	116	6.8	385	1 US-08-891-254-3	Sequence 3, Appli
43	116	6.8	385	1 US-08-819-539-3	Sequence 3, Appli
44	116	6.8	385	5 PCT-US96-08819-3	Sequence 3, Appli
45	116	6.8	790	4 US-09-328-352-4283	Sequence 4283, Ap

## ALIGNMENTS

```
RESULT 1
US-08-062-024B-5
Sequence 5, Application US/08062024B
Patent No. 5708139
GENERAL INFORMATION:
APPLICANT: Alan Collmer and Sheng-Yang He
TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrp2 Gene
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSER: Yanwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/062,024B
FILING DATE: May 17th 1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yanwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CRF D-1425
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 341 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-062-024B-5
Query Match 100.0%; Score 1697; DB 1; Length 341;
Best Local Similarity 100.0%; Pred. No. 2.2e-150;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 MOSLSLSSSSLSQTPTAMALVVRPEARTGSSKALQEVVYKLABRLMRNGQLDSSPLG 60
Db 1 MOSLSLSSSSLSQTPTAMALVVRPEARTGSSKALQEVVYKLABRLMRNGQLDSSPLG 60
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Db 121 KSMDDLTLTKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180  
QY 181 ETAFRSALDIIGQQLNQOSDAGSLAGTGGIGTSSFSNNSVWMDPLIDANTGPGDS 240  
Db 181 ETAFRSALDIIGQQLNQOSDAGSLAGTGGIGTSSFSNNSVWMDPLIDANTGPGDS 240  
QY 241 GNTREGAQLIGELIDRGLQSVLAGGIGTVPVTPQTGTANQGQSAQDLDQLLGLLLK 300  
Db 241 GNTREGAQLIGELIDRGLQSVLAGGIGTVPVTPQTGTANQGQSAQDLDQLLGLLLK 300  
QY 301 GLEATLKDAQGTGTVQVSSAAQIATLLVSTLLQGTNRQAAA 341  
Db 301 GLEATLKDAQGTGTVQVSSAAQIATLLVSTLLQGTNRQAAA 341

## RESULT 2

US-08-891-254-5  
; Sequence 5, Application US/08891254  
; Patent No. 5776889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance In Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-891-254-5

Query Match 100.0%; Score 1697; DB 1; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2.2e-150;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLINSNSSLQTPAMALVLRPEAETTGSTSSKALQGVVVKLAEBELMRNGOLDSSPLG 60  
Db 1 MOSLINSNSSLQTPAMALVLRPEAETTGSTSSKALQGVVVKLAEBELMRNGOLDSSPLG 60  
QY 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLDGNFGASADSAGTGOQDMLMTQVNLGLA 120

Db 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLDGNFGASADSAGTGOQDMLMTQVNLGLA 120  
QY 121 KSMDDLTLTKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180  
Db 121 KSMDDLTLTKODGTSFSEDDMPMLNKIAQFMDNDPAQFPKPSGSGVWNLKEDNPLDGD 180  
QY 181 ETAFRSALDIIGQQLNQOSDAGSLAGTGGIGTSSFSNNSVWMDPLIDANTGPGDS 240  
Db 181 ETAFRSALDIIGQQLNQOSDAGSLAGTGGIGTSSFSNNSVWMDPLIDANTGPGDS 240  
QY 241 GNTREGAQLIGELIDRGLQSVLAGGIGTVPVTPQTGTANQGQSAQDLDQLLGLLLK 300  
Db 241 GNTREGAQLIGELIDRGLQSVLAGGIGTVPVTPQTGTANQGQSAQDLDQLLGLLLK 300  
QY 301 GLEATLKDAQGTGTVQVSSAAQIATLLVSTLLQGTNRQAAA 341  
Db 301 GLEATLKDAQGTGTVQVSSAAQIATLLVSTLLQGTNRQAAA 341

## RESULT 3

US-08-756-407-5  
; Sequence 5, Application US/08756407  
; Patent No. 5858786  
; GENERAL INFORMATION:  
; APPLICANT: Alan Collier and Sheng-Yang He  
; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Yawak & Associates  
; STREET: 25 Skytop Drive  
; CITY: Trumbull  
; STATE: Connecticut  
; COUNTRY: USA  
; ZIP: 06611  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: Macintosh  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: Microsoft Word 4.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/756,407  
; FILING DATE: 27-NOV-1996  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 062,024  
; FILING DATE: 17-MAY-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: George M. Yawak  
; REGISTRATION NUMBER: 26,824  
; REFERENCE/DOCKET NUMBER: CRF D-1425  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (203)268-1951  
; TELEFAX: (203)268-1951  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-756-407-5

Query Match 100.0%; Score 1697; DB 2; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2.2e-150;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLINSNSSLQTPAMALVLRPEAETTGSTSSKALQGVVVKLAEBELMRNGOLDSSPLG 60  
Db 1 MOSLINSNSSLQTPAMALVLRPEAETTGSTSSKALQGVVVKLAEBELMRNGOLDSSPLG 60  
QY 61 KLLAKSMAADGKAGGIEEDVIAALDKLIHEKLDGNFGASADSAGTGOQDMLMTQVNLGLA 120

Db 61 KLLAKSWAADKAGGAGIEDVIAALDKLIHEKLDGNFGASADASAGTGGQDMLMTQVLANGLA 120  
QY 121 KSMIDLLITKQDGGTSSSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEIKEDNPLDGD 180  
Db 121 KSMIDLLITKQDGGTSSSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEIKEDNPLDGD 180  
QY 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGGGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
Db 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGGGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
QY 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTVPNTPQTGSANGQSAQDLDQLLGILLK 300  
Db 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTVPNTPQTGSANGQSAQDLDQLLGILLK 300  
QY 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRQAAA 341  
Db 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRQAAA 341

RESULT 4  
US-08-819-539-5  
; Sequence 5, Application US/08819539  
; Patent No. 5859324  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beet, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance in Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/819,539  
; FILING DATE: 17-MAR-1997  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-819-539-5

Query Match 100.0%; Score 1697; DB 2; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2, 2e-150;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSISLNSSSSLQTPAMALVVRPEAETTGSTSSKALQEVVVVKLAELIMRNGQLDDSSPLG 60  
Db 1 MOSISLNSSSSLQTPAMALVVRPEAETTGSTSSKALQEVVVVKLAELIMRNGQLDDSSPLG 60  
QY 61 KLLAKSWAADKAGGAGIEDVIAALDKLIHEKLDGNFGASADASAGTGGQDMLMTQVLANGLA 120

Db 61 KLLAKSWAADKAGGAGIEDVIAALDKLIHEKLDGNFGASADASAGTGGQDMLMTQVLANGLA 120  
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Db 121 KSMIDLLITKQDGGTSSSEDDMPMLNKIAQFMDNPAQFPKPDGSGSVNLEIKEDNPLDGD 180  
QY 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGGGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
Db 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGGGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
QY 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTVPNTPQTGSANGQSAQDLDQLLGILLK 300  
Db 241 GNTREGAGOLIGELIDRGLQSVLAGGIGTVPNTPQTGSANGQSAQDLDQLLGILLK 300  
QY 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRQAAA 341  
Db 301 GLEATLKADAGCTGTDVQSSAAQIATLLVSTLLQSTRQAAA 341

RESULT 5  
US-09-030-270A-5  
; Sequence 5, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,270A  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,226  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/15221  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-030-270A-5

Query Match 100.0%; Score 1697; DB 2; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2, 2e-150;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSISLNSSSSLQTPAMALVVRPEAETTGSTSSKALQEVVVVKLAELIMRNGQLDDSSPLG 60  
Db 1 MOSISLNSSSSLQTPAMALVVRPEAETTGSTSSKALQEVVVVKLAELIMRNGQLDDSSPLG 60

QY 61 KLAQSWAADGKAGGGIEDVIAALDKLIHEKLGDNFGASADSGTGQODLMTQVNLGLA 120  
DB 61 KLAQSWAADGKAGGGIEDVIAALDKLIHEKLGDNFGASADSGTGQODLMTQVNLGLA 120  
QY 121 KSMILDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEIKEDNPLDGD 180  
DB 121 KSMILDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEIKEDNPLDGD 180  
QY 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVMGDPPLIDANTGPGDS 240  
DB 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVMGDPPLIDANTGPGDS 240  
QY 241 GNTRGEGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDOLLGGLLTK 300  
DB 241 GNTRGEGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDOLLGGLLTK 300  
QY 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341  
DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341

## RESULT 6

US-08-984-207-5  
Sequence 5, Application US/08984207  
Patent No. 6235974

## GENERAL INFORMATION:

APPLICANT: Qiu, Dwen  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:

## CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996

## ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304

## TELEPHONE: (716) 263-1600

## INFORMATION FOR SEQ ID NO: 5:

## SEQUENCE CHARACTERISTICS:

## LENGTH: 341 amino acids

## TYPE: amino acid

## STRANDEDNESS:

## TOPOLOGY: linear

## MOLECULE TYPE: protein

## US-08-984-207-5

Query Match 100.0%; Score 1697; DB 3; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2.2e-150; Indels 0; Gaps 0;  
Matches 341; Conservative 0; Mismatches 0;

QY 1 MOSLSLNSSSIQTPAMALVIVRPEAETTGSTSSKALQEVVVKLAELMRNQDLDSSPLG 60  
|||||

DB 1 MOSLSLNSSSIQTPAMALVIVRPEAETTGSTSSKALQEVVVKLAELMRNQDLDSSPLG 60  
QY 61 KLAQSWAADGKAGGGIEDVIAALDKLIHEKLGDNFGASADSGTGQODLMTQVNLGLA 120  
DB 61 KLAQSWAADGKAGGGIEDVIAALDKLIHEKLGDNFGASADSGTGQODLMTQVNLGLA 120  
QY 121 KSMILDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEIKEDNPLDGD 180  
DB 121 KSMILDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPDGSGWVNEIKEDNPLDGD 180  
QY 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVMGDPPLIDANTGPGDS 240  
DB 181 ETAAFRSALDIIGQQLGNQSDAGSLAGTGGGLGTPTSSFSNNSSVMGDPPLIDANTGPGDS 240  
QY 241 GNTRGEGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDOLLGGLLTK 300  
DB 241 GNTRGEGQILIGELIDRGLOSVLAGGGLGTPVNTPOTGTSANGQSAQODLDOLLGGLLTK 300  
QY 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341  
DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQGTNRQAAA 341

## RESULT 7

US-09-013-587-5  
Sequence 5, Application US/09013587  
Patent No. 6277814

## GENERAL INFORMATION:

APPLICANT: Qiu, Dwen  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:

## CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997

## ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304

## TELEPHONE: (716) 263-1600

## INFORMATION FOR SEQ ID NO: 5:

## SEQUENCE CHARACTERISTICS:

## LENGTH: 341 amino acids

## TYPE: amino acid

## STRANDEDNESS:

## TOPOLOGY: linear

## MOLECULE TYPE: protein

## US-09-013-587-5

Query Match 100.0%; Score 1697; DB 3; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2.2e-150; Indels 0; Gaps 0;  
Matches 341; Conservative 0; Mismatches 0;

QY 1 MOSLSLNSSSIQTPAMALVIVRPEAETTGSTSSKALQEVVVKLAELMRNQDLDSSPLG 60  
|||||

|||||  
Db 1 MOSLINSSTLQTPAMALVLRPEAFTTGSTSSKALQEVVVKLABELMRNGQLDDSSPLG 60  
Qy 61 KLLAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQODLMTQVNLGA 120  
Db 61 KLLAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQODLMTQVNLGA 120  
Qy 121 KSMDDLTTKODGTSFSEDDMPMLNKIAQFMDNDNPAQFPKPDGSGSWNELKEDNPLDGD 180  
Db 121 KSMDDLTTKODGTSFSEDDMPMLNKIAQFMDNDNPAQFPKPDGSGSWNELKEDNPLDGD 180  
Qy 181 ETAAFRSALDIIGQLNGQSDAGSLAGTGGGLGTPSSFSNNSVMDPLIDANTGPDS 240  
Db 181 ETAAFRSALDIIGQLNGQSDAGSLAGTGGGLGTPSSFSNNSVMDPLIDANTGPDS 240  
Qy 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGGQSAQDLDQLLGLLLK 300  
Db 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGGQSAQDLDQLLGLLLK 300  
Qy 301 GLEATLKDAGGTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341  
Db 301 GLEATLKDAGGTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341

## RESULT 8

US-09-086-118-25

; Sequence 25, Application US/09086118  
; Patent No. 6583107  
; GENERAL INFORMATION:  
; APPLICANT: Laby, Ronald J.  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICTOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 341 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-086-118-25

Query Match 100.0%; Score 1697; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2,2e-150;

Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MOSLINSSTLQTPAMALVLRPEAFTTGSTSSKALQEVVVKLABELMRNGQLDDSSPLG 60  
Db 1 MOSLINSSTLQTPAMALVLRPEAFTTGSTSSKALQEVVVKLABELMRNGQLDDSSPLG 60  
Qy 61 KLLAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQODLMTQVNLGA 120  
Db 61 KLLAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQODLMTQVNLGA 120  
Qy 121 KSMDDLTTKODGTSFSEDDMPMLNKIAQFMDNDNPAQFPKPDGSGSWNELKEDNPLDGD 180  
Db 121 KSMDDLTTKODGTSFSEDDMPMLNKIAQFMDNDNPAQFPKPDGSGSWNELKEDNPLDGD 180  
Qy 181 ETAAFRSALDIIGQLNGQSDAGSLAGTGGGLGTPSSFSNNSVMDPLIDANTGPDS 240  
Db 181 ETAAFRSALDIIGQLNGQSDAGSLAGTGGGLGTPSSFSNNSVMDPLIDANTGPDS 240  
Qy 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGGQSAQDLDQLLGLLLK 300  
Db 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGGQSAQDLDQLLGLLLK 300  
Qy 301 GLEATLKDAGGTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341  
Db 301 GLEATLKDAGGTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341

## RESULT 9

US-09-431-614-11

; Sequence 11, Application US/09431614  
; Patent No. 6624139  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICTOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/41 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/09/431,614  
; CURRENT FILING DATE: 1999-11-02  
; EARLIER APPLICATION NUMBER: 60/107,243  
; EARLIER FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 11  
; LENGTH: 341  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
; US-09-431-614-11

Query Match 100.0%; Score 1697; DB 4; Length 341;  
Best Local Similarity 100.0%; Pred. No. 2,2e-150;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MOSLINSSTLQTPAMALVLRPEAFTTGSTSSKALQEVVVKLABELMRNGQLDDSSPLG 60  
Db 1 MOSLINSSTLQTPAMALVLRPEAFTTGSTSSKALQEVVVKLABELMRNGQLDDSSPLG 60  
Qy 61 KLLAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQODLMTQVNLGA 120  
Db 61 KLLAKSMAADGKAGGIEDVIAALDKLIHEKLGDNFGASADSASGTGQODLMTQVNLGA 120  
Qy 121 KSMDDLTTKODGTSFSEDDMPMLNKIAQFMDNDNPAQFPKPDGSGSWNELKEDNPLDGD 180  
Db 121 KSMDDLTTKODGTSFSEDDMPMLNKIAQFMDNDNPAQFPKPDGSGSWNELKEDNPLDGD 180  
Qy 181 ETAAFRSALDIIGQLNGQSDAGSLAGTGGGLGTPSSFSNNSVMDPLIDANTGPDS 240  
Db 181 ETAAFRSALDIIGQLNGQSDAGSLAGTGGGLGTPSSFSNNSVMDPLIDANTGPDS 240  
Qy 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGGQSAQDLDQLLGLLLK 300  
Db 241 GNTGGEAGQLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGGQSAQDLDQLLGLLLK 300

QY 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341  
 Db 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

## RESULT 10

PCT-US94-05014-5  
 ; Sequence 5, Application PC/TUS9405014  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Corneil Research Foundation, Inc.  
 ; TITLE OF INVENTION: Pseudomonas syringae pv. syringae hrpZ Gene  
 ; NUMBER OF SEQUENCES: 6  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Yahwak & Associates  
 ; STREET: 25 Skytop Drive  
 ; CITY: Trumbull  
 ; STATE: Connecticut  
 ; COUNTRY: USA  
 ; ZIP: 06611  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: floppy disk  
 ; OPERATING SYSTEM: Macintosh  
 ; SOFTWARE: Microsoft Word 4.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/US94/05014  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: George M. Yahwak  
 ; REGISTRATION NUMBER: 26,824  
 ; REFERENCE/DOCKET NUMBER: CRF D-1425  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (203)268-1951  
 ; TELEFAX: (203)268-1951  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 341 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; PCT-US94-05014-5

Query Match 100.0%; Score 1697; DB 5; Length 341;  
 Best Local Similarity 100.0%; Pred. No. 2.2e-150;  
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60  
 Db 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60  
 QY 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120  
 Db 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120  
 QY 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWNEIKEDNPLDGD 180  
 Db 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWNEIKEDNPLDGD 180  
 QY 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGCGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
 Db 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGCGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
 QY 241 GNTREGAGQLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADLDQLLGGLLK 300  
 Db 241 GNTREGAGQLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADLDQLLGGLLK 300  
 QY 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341  
 Db 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

## RESULT 11

PCT-US96-08819-5  
 ; Sequence 5, Application PC/TUS9608819  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Corneil Research Foundation, Inc.  
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
 ; NUMBER OF SEQUENCES: 9  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
 ; STREET: Clinton Square, P.O. Box 1051  
 ; CITY: Rochester  
 ; STATE: New York  
 ; COUNTRY: U.S.A.  
 ; ZIP: 14603  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: floppy disk  
 ; OPERATING SYSTEM: IBM PC compatible  
 ; SOFTWARE: Patent in Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/US96/08819  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/475,775  
 ; FILING DATE: 07-JUN-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Goldman, Michael L.  
 ; REGISTRATION NUMBER: 30,727  
 ; REFERENCE/DOCKET NUMBER: 19603/10051  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (716) 263-1304  
 ; TELEFAX: (716) 263-1600  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 341 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; PCT-US96-08819-5

Query Match 100.0%; Score 1697; DB 5; Length 341;  
 Best Local Similarity 100.0%; Pred. No. 2.2e-150;  
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60  
 Db 1 MOSLISNSSSIQTTPAMALVLRPEAETTGSTSSKALQEVVYKLAEBELMRNGQLDDSSPLG 60  
 QY 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120  
 Db 61 KLLAKSMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSASGTGQODLMTQVNLGCLA 120  
 QY 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWNEIKEDNPLDGD 180  
 Db 121 KSMULDLITKQDGGTSFSEDDMPMLNKIAQFMDNPAQFPKPDGSGVWNEIKEDNPLDGD 180  
 QY 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGCGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
 Db 181 ETAAFRSALDIIGQQLNQOSDAGSLAGTGCGLGTPSSFSNNSVWMDPLIDANTGPGDS 240  
 QY 241 GNTREGAGQLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADLDQLLGGLLK 300  
 Db 241 GNTREGAGQLIGELIDRGLQSVLAGGIGTPVNTPQTGTSANGQSADLDQLLGGLLK 300  
 QY 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341  
 Db 301 GLEATLKDAAGTGTDVOSAAQIATLLVSTLLQSTRNOAAA 341

## RESULT 12

US-08-891-254-1  
; Sequence 1, Application US/08891254  
; Patent No. 576889  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance in Plants  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/891,254  
; FILING DATE: 10-JUL-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/475,775  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 14603/10050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-891-254-1

Query Match 8.2%; Score 138.5; DB 1; Length 338;  
Best Local Similarity 24.5%; Pred. No. 0.00012;  
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVTLAELRLNRNGQLDDSSPLGKLLAKSMADGKA---GGIEEDVIALD 85  
DB 108 KALDLDLGHDTVTKLTNQ---SNQLANS-----MLNLSQMTQGMMAFGSGVNNALSSI- 158  
QY 86 KLIEKLDNFSGASDASGTGQDMLTQVNLGL-----AKSML 124  
DB 159 -----LGNLGG---QSMGFSQPSLGGAGLQGLSGAGAFNQLGNATGMGVGQNAALSL 209  
QY 125 DDLITKODGGS--FSSDDMPMLNKIAQFMDNPAQF-----PKPDGSGVYNE 170  
DB 210 SNVSTHYDGNRRHFRVDEKEDRGMKEIGCFMDQYBEIFGKPEYQKDGWSSPKTDDKSWAKA 269  
QY 171 LK--EDNFDLGDERTAAFRSALDITIGQQLGNQGSAG--SLAGTGGGLGTPSSFSNNSSVMG 227  
DB 270 LSKPDDGGMGASMDKFRQAMGMIKSAVADTGNTNLNLRGAGG-----ASLGIDAAYVG 324

QY 228 DPLIDANTG 236  
DB 325 DKIANMSLG 333

RESULT 13  
US-08-484-358-2  
; Sequence 2, Application US/08484358  
; Patent No. 5850015

GENERAL INFORMATION:  
; APPLICANT: Bauer, David  
; APPLICANT: Collier, Alan  
; TITLE OF INVENTION: Hypersensitive Response Elicitor  
; TITLE OF INVENTION: From  
; TITLE OF INVENTION: Erwinia Chrysanthemi  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
; STREET: Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/484,358  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/840  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 716-263-1600  
; TELEFAX: 716-263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 338 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-484-358-2

Query Match 8.2%; Score 138.5; DB 2; Length 338;  
Best Local Similarity 24.5%; Pred. No. 0.00012;  
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVTLAELRLNRNGQLDDSSPLGKLLAKSMADGKA---GGIEEDVIALD 85  
DB 108 KALDLDLGHDTVTKLTNQ---SNQLANS-----MLNLSQMTQGMMAFGSGVNNALSSI- 158  
QY 86 KLIEKLDNFSGASDASGTGQDMLTQVNLGL-----AKSML 124  
DB 159 -----LGNLGG---QSMGFSQPSLGGAGLQGLSGAGAFNQLGNATGMGVGQNAALSL 209  
QY 125 DDLITKODGGS--FSSDDMPMLNKIAQFMDNPAQF-----PKPDGSGVYNE 170  
DB 210 SNVSTHYDGNRRHFRVDEKEDRGMKEIGCFMDQYBEIFGKPEYQKDGWSSPKTDDKSWAKA 269  
QY 171 LK--EDNFDLGDERTAAFRSALDITIGQQLGNQGSAG--SLAGTGGGLGTPSSFSNNSSVMG 227  
DB 270 LSKPDDGGMGASMDKFRQAMGMIKSAVADTGNTNLNLRGAGG-----ASLGIDAAYVG 324

QY 228 DPLIDANTG 236  
DB 325 DKIANMSLG 333

RESULT 14  
US-08-819-539-1  
; Sequence 1, Application US/08819539  
; Patent No. 5859324  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: Hypersensitive Response  
; TITLE OF INVENTION: Induced Resistance in Plants

NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/819,539  
FILING DATE: 17-MAR-1997  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
ATTORNEY/AGENT INFORMATION:  
FILING DATE:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-819-539-1

Query Match 8.2%; Score 138.5; DB 2; Length 338;  
Best Local Similarity 24.5%; Pred. No. 0.00012;  
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85  
DB 108 KALDLDLGHDTVTLTNQ---SNQLANS-----MLNMQMTQGMNNAFGSGVNNALSSI- 158  
QY 86 KLIHEKLDNFGASADSASGTGQDDLTQVNLG-----AKSML 124  
DB 159 -----LGNGLG---QSMGSPSQSLGAGGLGSLGAGAFNQLGNALGMVGQNALSL 209  
QY 125 DDLITKODGGS--FSEDDMPMLNKIAQFMDNDPAQF-----PKPSGGSVNE 170  
DB 210 SNVSTHYDGNRRHVVDEKDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKA 269  
QY 171 LK--EDNPLDGDETAFAFSALDIIGQQLGNQSDAG--SLAGTGGGLGTPSSFSNNSVWG 227  
DB 270 LSKPDDDGMTGASMDKFRQAGMTKSAVAGDTGNTNLNLRGAGG-----ASLGIDAAVVG 324

QY 228 DPLIDANTG 236  
DB 325 DKIANMSLG 333

RESULT 15  
US-09-030-270A-1  
; Sequence 1, Application US/09030270A  
; Patent No. 5977060  
; GENERAL INFORMATION:  
; APPLICANT: Zitter, Thomas A.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: INSECT CONTROL WITH A  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/030,270A  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,226  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1521  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-030-270A-1

Query Match 8.2%; Score 138.5; DB 2; Length 338;  
Best Local Similarity 24.5%; Pred. No. 0.00012;  
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;

QY 34 KALQEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEDVIALD 85  
DB 108 KALDLDLGHDTVTLTNQ---SNQLANS-----MLNMQMTQGMNNAFGSGVNNALSSI- 158  
QY 86 KLIHEKLDNFGASADSASGTGQDDLTQVNLG-----AKSML 124  
DB 159 -----LGNGLG---QSMGSPSQSLGAGGLGSLGAGAFNQLGNALGMVGQNALSL 209  
QY 125 DDLITKODGGS--FSEDDMPMLNKIAQFMDNDPAQF-----PKPSGGSVNE 170  
DB 210 SNVSTHYDGNRRHVVDEKDRGMAKEIGQFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKA 269  
QY 171 LK--EDNPLDGDETAFAFSALDIIGQQLGNQSDAG--SLAGTGGGLGTPSSFSNNSVWG 227  
DB 270 LSKPDDDGMTGASMDKFRQAGMTKSAVAGDTGNTNLNLRGAGG-----ASLGIDAAVVG 324

QY 228 DPLIDANTG 236  
DB 325 DKIANMSLG 333

Search completed: March 11, 2005, 12:49:47  
Job time : 22.7609 secs



GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: March 11, 2005, 12:45:48 ; Search time 63.8478 Seconds

(Without alignments)  
1761.643 Million cell updates/sec

Title: US-09-597-840-5

Perfect score: 1697  
Sequence: 1 MGSLSNSSLQTPMALVL.....QIATLVSTLQTRNGAA 341Scoring table: BIOSIM62  
Gapop 10.0 , Gapext 0.5

Searched: 1396920 seqs, 32984858 residues

Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

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2: /cgn2\_6/ptodata/1/pubppaa/US06\_PUBCOMB.pep:\*

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20: /cgn2\_6/ptodata/1/pubppaa/US06\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1697	100.0	341	US-09-086-118-25	Sequence 25, Appl
2	1697	100.0	341	US-09-835-684-7	Sequence 7, Appl
3	1697	100.0	341	US-09-880-371-7	Sequence 7, Appl
4	1697	100.0	341	US-09-879-248-11	Sequence 11, Appl
5	1697	100.0	341	US-09-770-693-5	Sequence 5, Appl
6	1697	100.0	341	US-10-034-158-5	Sequence 5, Appl
7	1697	100.0	341	US-10-010-390-7	Sequence 7, Appl
8	1697	100.0	341	US-10-387-806-25	Sequence 25, Appl
9	1697	100.0	341	US-10-441-736-11	Sequence 11, Appl
10	1633.5	96.3	342	US-10-363-832-7	Sequence 2, Appl
11	146	8.6	3286	US-10-282-122A-49697	Sequence 49697, A
12	138.5	8.2	338	US-09-086-118-21	Sequence 21, Appl
13	138.5	8.2	338	US-09-835-684-1	Sequence 1, Appl

14	138.5	8.2	338	US-09-880-371-1	Sequence 1, Appl
15	138.5	8.2	338	US-09-879-248-1	Sequence 1, Appl
16	138.5	8.2	338	US-09-770-693-1	Sequence 1, Appl
17	138.5	8.2	338	US-09-766-348-1	Sequence 1, Appl
18	138.5	8.2	338	US-10-034-158-1	Sequence 1, Appl
19	138.5	8.2	338	US-10-010-390-1	Sequence 1, Appl
20	138.5	8.2	338	US-10-387-806-21	Sequence 21, Appl
21	138.5	8.2	338	US-10-441-736-1	Sequence 1, Appl
22	128.5	7.6	1862	US-10-282-122A-49757	Sequence 49757, A
23	127.5	7.5	344	US-09-086-118-27	Sequence 27, Appl
24	127.5	7.5	344	US-09-835-684-11	Sequence 11, Appl
25	127.5	7.5	344	US-09-880-371-11	Sequence 11, Appl
26	127.5	7.5	344	US-09-879-248-15	Sequence 15, Appl
27	127.5	7.5	344	US-09-770-693-7	Sequence 7, Appl
28	127.5	7.5	344	US-09-766-348-7	Sequence 7, Appl
29	127.5	7.5	344	US-10-034-158-7	Sequence 7, Appl
30	127.5	7.5	344	US-10-010-390-11	Sequence 11, Appl
31	127.5	7.5	344	US-10-387-806-27	Sequence 27, Appl
32	127.5	7.5	344	US-10-441-736-15	Sequence 15, Appl
33	125.5	7.4	1819	US-10-282-122A-51538	Sequence 51538, A
34	125	7.4	993	US-10-282-122A-43875	Sequence 43875, A
35	123.5	7.3	1023	US-09-884-696-5	Sequence 5, Appl
36	121.5	7.2	403	US-09-086-118-23	Sequence 23, Appl
37	121.5	7.2	403	US-09-835-684-3	Sequence 3, Appl
38	121.5	7.2	403	US-09-880-371-3	Sequence 3, Appl
39	121.5	7.2	403	US-09-879-248-3	Sequence 3, Appl
40	121.5	7.2	403	US-09-770-693-3	Sequence 3, Appl
41	121.5	7.2	403	US-09-766-348-3	Sequence 3, Appl
42	121.5	7.2	403	US-10-034-158-3	Sequence 3, Appl
43	121.5	7.2	403	US-10-010-390-3	Sequence 3, Appl
44	121.5	7.2	403	US-10-387-806-23	Sequence 23, Appl
45	121.5	7.2	403	US-10-441-736-3	Sequence 3, Appl

## ALIGNMENTS

RESULT 1  
US-09-086-118-25  
; Sequence 25, Application US/09086118  
; Patent No. US20010011380A1  
GENERAL INFORMATION:  
APPLICANT: Baby, Ronald J.  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENT'S ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 25:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 341 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-086-118-25

Query Match 100.0%; Score 1697; DB 9; Length 341;  
 Best Local Similarity 100.0%; Pred. No. 8e-130;  
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQSTRNQAAA 341

RESULT 2  
 US-09-835-684-7  
 Sequence 7, Application US/09835684  
 Patent No. US20020019337A1  
 GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Qiu, Dewen  
 APPLICANT: Renick, Dean  
 TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
 TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
 FILE REFERENCE: 21829/771  
 CURRENT APPLICATION NUMBER: US/09/835,684  
 CURRENT FILING DATE: 2001-04-16  
 PRIOR APPLICATION NUMBER: 60/198,359  
 PRIOR FILING DATE: 2000-04-19  
 NUMBER OF SEQ ID NOS: 12  
 SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO 7  
 LENGTH: 341  
 TYPE: PRT  
 ORGANISM: Pseudomonas syringae  
 US-09-835-684-7

Query Match 100.0%; Score 1697; DB 9; Length 341;  
 Best Local Similarity 100.0%; Pred. No. 8e-130;  
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQSTRNQAAA 341

RESULT 3  
 US-09-880-371-7  
 Sequence 7, Application US/09880371  
 Patent No. US20020059658A1  
 GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: DeRoche, Jay  
 TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
 FILE REFERENCE: 21829/91  
 CURRENT APPLICATION NUMBER: US/09/880,371  
 CURRENT FILING DATE: 2001-06-13  
 PRIOR APPLICATION NUMBER: 60/211,585  
 PRIOR FILING DATE: 2000-06-15  
 NUMBER OF SEQ ID NOS: 16  
 SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO 7  
 LENGTH: 341  
 TYPE: PRT  
 ORGANISM: Pseudomonas syringae  
 US-09-880-371-7

Query Match 100.0%; Score 1697; DB 9; Length 341;  
 Best Local Similarity 100.0%; Pred. No. 8e-130;  
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 QY 181 ETAAFRSALDIIGQOLNQSDAGSLAGTGGGIGTSPSSFNSSVWMDPLIDANTGPGDS 240  
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 DB 301 GLEATLKDAQGTGTVDVSSAAQIATLLVSTLLQSTRNQAAA 341

RESULT 4  
 US-09-879-248-11

Sequence 11, Application US/09879248  
Patent No. US20020062500A1  
GENERAL INFORMATION:  
APPLICANT: Fan, Hao  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
TITLE OF INVENTION: THEREOF  
FILE REFERENCE: 21829/81  
CURRENT APPLICATION NUMBER: US/09/879, 248  
CURRENT FILING DATE: 2001-06-12  
PRIOR APPLICATION NUMBER: 60/212, 211  
PRIOR FILING DATE: 2000-06-16  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 11  
LENGTH: 341  
TYPE: PRT  
ORGANISM: Pseudomonas syringae  
US-09-879-248-11

Query Match 100.0%; Score 1697; DB 9; Length 341;  
Best Local Similarity 100.0%; Pred. No. 8e-130;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 301 GLEATLKADAGTGTDVQSSAAQIATLLVSTLLQSTRNOAAA 341

RESULT 5  
US-09-770-693-5

Sequence 5, Application US/09770693  
Patent No. US2002006943A1  
GENERAL INFORMATION:  
APPLICANT: Beer, Steven V.  
APPLICANT: Bauer, David W.  
TITLE OF INVENTION: COMYTE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
FILE REFERENCE: 19603/2501  
CURRENT APPLICATION NUMBER: US/09/770, 693  
CURRENT FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: 60/178, 565  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 5  
LENGTH: 341  
TYPE: PRT  
ORGANISM: Pseudomonas syringae  
US-09-770-693-5

Query Match 100.0%; Score 1697; DB 9; Length 341;

Best Local Similarity 100.0%; Pred. No. 8e-130;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MOSLISNSSSLQTPAMALVIVRPAETGTSKALOEVVVKLAEBLMRNGQLDSSPLG 60  
QY 61 KLAASMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSAGTGOQDMLMTQVLANGLA 120  
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DB 121 KSMDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPSGWSVWNEIKEDNPLDGD 180  
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DB 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLGTPSSFSNNSVWGDPLIDANTGPGDS 240  
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DB 241 GNTREGAGOLIGELIDRGLQSVLAGGGLGTPVNTPQTGTSANGQSADQLDQLGGLLK 300  
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RESULT 6  
US-10-034-158-5

Sequence 5, Application US/10034158  
Publication No. US20030028918A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS  
FILE REFERENCE: 21829/230  
CURRENT APPLICATION NUMBER: US/10/034, 158  
CURRENT FILING DATE: 2001-12-20  
PRIOR APPLICATION NUMBER: 09/597, 840  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: 09/013, 587  
PRIOR FILING DATE: 1998-01-26  
PRIOR APPLICATION NUMBER: 60/036, 048  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 5  
LENGTH: 341  
TYPE: PRT  
ORGANISM: Pseudomonas syringae  
US-10-034-158-5

Query Match 100.0%; Score 1697; DB 14; Length 341;  
Best Local Similarity 100.0%; Pred. No. 8e-130;  
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 KLAASMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSAGTGOQDMLMTQVLANGLA 120  
DB 61 KLAASMAADGKAGGIEDVIAALDKLHEKLGDNFGASADSAGTGOQDMLMTQVLANGLA 120  
QY 121 KSMDDLITRKQDGTSTSEDDMPMLNKIAQFMDNPAQFPKPSGWSVWNEIKEDNPLDGD 180  
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QY 181 ETAAFRSALDIIGQOLNQOSDAGSLAGTGGLGTPVNTPQTGTSANGQSADQLDQLGGLLK 300  
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Db      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGSANGGQSAQDLDQLLGGILLK 300
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Db      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341

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## RESULT 7

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US-10-010-390-7
; Sequence 7, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oyiedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010.390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-010-390-7

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Query Match      100.0%; Score 1697; DB 14; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 MOSLISNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVYKLAEBELMRNGQLDDSSPLG 60
Qy      61 KLAASMAADGKAGGIEDEVYIALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
Db      61 KLAASMAADGKAGGIEDEVYIALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
Qy      121 KSMIDDLITRKQDGTSTFSEDDPMLNKIAQFMDNPAQFPKPDGSGVWNELEKDNFLDGD 180
Db      121 KSMIDDLITRKQDGTSTFSEDDPMLNKIAQFMDNPAQFPKPDGSGVWNELEKDNFLDGD 180
Qy      181 ETAAFRSALDIIGQQLNGQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
Db      181 ETAAFRSALDIIGQQLNGQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
Qy      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGSANGGQSAQDLDQLLGGILLK 300
Db      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGSANGGQSAQDLDQLLGGILLK 300
Qy      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341
Db      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341

```

## RESULT 8

```

US-10-387-806-25
; Sequence 25, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Lady, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12

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; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-387-806-25

```

```

Query Match      100.0%; Score 1697; DB 14; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MOSLISNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVYKLAEBELMRNGQLDDSSPLG 60
Db      1 MOSLISNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVYKLAEBELMRNGQLDDSSPLG 60
Qy      61 KLAASMAADGKAGGIEDEVYIALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
Db      61 KLAASMAADGKAGGIEDEVYIALDKLIHEKLGDNFGASADSASGTGQDMLTQVLANGLA 120
Qy      121 KSMIDDLITRKQDGTSTFSEDDPMLNKIAQFMDNPAQFPKPDGSGVWNELEKDNFLDGD 180
Db      121 KSMIDDLITRKQDGTSTFSEDDPMLNKIAQFMDNPAQFPKPDGSGVWNELEKDNFLDGD 180
Qy      181 ETAAFRSALDIIGQQLNGQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
Db      181 ETAAFRSALDIIGQQLNGQSDAGSLAGTGGGCTGTPSSFSNNSVWMDPLIDANTGPGDS 240
Qy      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGSANGGQSAQDLDQLLGGILLK 300
Db      241 GNTGGEAGQILGELIDRGLSVLAGGGLGTPVNTPQTGSANGGQSAQDLDQLLGGILLK 300
Qy      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341
Db      301 GLEATLKDACGTGTVVSSAAQIATLLVSTLLQSTRNOAAA 341

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## RESULT 9

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US-10-441-736-11
; Sequence 11, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; FILE REFERENCE: 21829/203 (BBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-441-736-11

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Query Match      100.0%; Score 1697; DB 15; Length 341;
Best Local Similarity 100.0%; Pred. No. 8e-130;
Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MOSLISNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVYKLAEBELMRNGQLDDSSPLG 60
Db      1 MOSLISNSSSLQTPAMALVLRPEAETTGSTSSKALQEVVVYKLAEBELMRNGQLDDSSPLG 60

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Qy 61 KTLAKSMAADGKAGGIEDVIAALDKLTHEKLDGNFGASDASGAGTGOQDMLTQVINGLA 120
Db 61 KTLAKSMAADGKAGGIEDVIAALDKLTHEKLDGNFGASDASGAGTGOQDMLTQVINGLA 120
Qy 121 KSMULDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKPDGSGSWNELKEDNPLDGD 180
Db 121 KSMULDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKPDGSGSWNELKEDNPLDGD 180
Qy 181 ETAFAFRSALDIIGQQLGNQOSDAGSLAGTGGGLCTPSSFSNNSVWMDPLIDANTGQDS 240
Db 181 ETAFAFRSALDIIGQQLGNQOSDAGSLAGTGGGLCTPSSFSNNSVWMDPLIDANTGQDS 240
Qy 241 GNTREGAGOLIGELIDRGLQSVLAAGGLGTPVNTPOTGTSANGGSAQODLDQLLGGLLK 300
Db 241 GNTREGAGOLIGELIDRGLQSVLAAGGLGTPVNTPOTGTSANGGSAQODLDQLLGGLLK 300
Qy 301 GLEATLKADAGOTGTVDVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 301 GLEATLKADAGOTGTVDVQSSAAQIATLLVSTLLQSTRNOAAA 341

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RESULT 10
US-10-363-832-2
; Sequence 2, Application US/10363832
; Publication No. US20040073970A1
; GENERAL INFORMATION:
; APPLICANT: TAKAKURA et al.
; TITLE OF INVENTION: DISEASE-RESISTANT PLANTS AND METHOD OF CONSTRUCTING THE SAME
; FILE REFERENCE: 0230-0196P
; CURRENT APPLICATION NUMBER: US/10/363,832
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: JP 2000-271413
; PRIOR FILING DATE: 07.09.2000
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent-In ver. 3.2
; SEQ ID NO 2
; LENGTH: 342
; TYPE: prt
; ORGANISM: Pseudomonas syringae pv. syringae LOB2-1
US-10-363-832-2

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Query Match 96.3%; Score 1633.5; DB 15; Length 342;
Best Local Similarity 96.5%; Pred. No. 1,2e-124;
Matches 330; Conservative 4; Mismatches 7; Indels 1; Gaps 1;
Qy 1 MGSLSINSSSLQTPAMALVLRPEAEFTTG-STSSKALQEVVVVLAELMRNGQLDSSPL 59
Db 1 MGSLSINSSSLQTPAMALVLRPEAEFTTGSTSSKALQEVVVVLAELMRNGQLDSSPL 60
Qy 60 GKLLASMAADGKAGGIEDVIAALDKLTHEKLDGNFGASDASGAGTGOQDMLTQVINGL 119
Db 60 GKLLASMAADGKAGGIEDVIAALDKLTHEKLDGNFGASDASGAGTGOQDMLTQVINGL 120
Qy 120 AKSMLDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKPDGSGSWNELKEDNPLDGD 179
Db 120 AKSMLDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKPDGSGSWNELKEDNPLDGD 180
Qy 181 AKSMLDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKPDGSGSWNELKEDNPLDGD 180
Db 181 AKSMLDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKPDGSGSWNELKEDNPLDGD 180
Qy 240 SGNTRGAGOLIGELIDRGLQSVLAAGGLGTPVNTPOTGTSANGGSAQODLDQLLGGLLK 299
Db 240 SGNTRGAGOLIGELIDRGLQSVLAAGGLGTPVNTPOTGTSANGGSAQODLDQLLGGLLK 300
Qy 300 KGLEATLKADAGOTGTVDVQSSAAQIATLLVSTLLQSTRNOAAA 341
Db 300 KGLEATLKADAGOTGTVDVQSSAAQIATLLVSTLLQSTRNOAAA 342

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RESULT 11
US-10-282-122A-49697
; Sequence 49697, Application US/10282122A

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; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haeelbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zykend, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EUTRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 49697
; LENGTH: 3286
; TYPE: prt
; ORGANISM: Burkholderia fungorum
US-10-282-122A-49697

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Query Match 8.6%; Score 146; DB 15; Length 3286;
Best Local Similarity 25.0%; Pred. No. 0.03;
Matches 109; Conservative 43; Mismatches 138; Indels 146; Gaps 20;
Qy 2 QSLISNSSLQTPAMALVLRPEAEFTTGSTSSKALQEVVVVLAELMRNGQLDSSPL 57
Db 2 QSVYNDGSIQ-HAGSGTLAASGTLSTNGC-----NVTNGALDVSGTAVS 918
Qy 58 PLKTLAK-----SMADGKAGGIEDVIAALDKLTHEKLDGNFGASADS 102
Db 58 PLKTLAK-----SMADGKAGGIEDVIAALDKLTHEKLDGNFGASADS 102
Qy 919 NQGSLSKAGDATVRAOSLDNHAGSVVAGNLGANNIAGALANOGGTLSTVSGSSVDN 978
Db 919 NQGSLSKAGDATVRAOSLDNHAGSVVAGNLGANNIAGALANOGGTLSTVSGSSVDN 978
Qy 103 ASGTGOQDMLTQVINGLAKSMLDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKP 162
Db 103 ASGTGOQDMLTQVINGLAKSMLDLITRKODGTSFSEDDMPMLNKIAQFMDNPAQPKP 162
Qy 979 SNGTIEB-----NTLASSSGNLSNR--G-----RLTY----- 1006
Db 979 SNGTIEB-----NTLASSSGNLSNR--G-----RLTY----- 1006
Qy 163 DSGSWNELKEDNPLD--GDETAFAFRSALDIIGQQLGNQOSDAGSL--AGTG----- 210
Db 163 DSGSWNELKEDNPLD--GDETAFAFRSALDIIGQQLGNQOSDAGSL--AGTG----- 210
Qy 1007 --GSADQTLASGALDWTGTLATNMANLTVSGQSITN--DAGSIOHAGTGLNVTTPG 1061
Db 1007 --GSADQTLASGALDWTGTLATNMANLTVSGQSITN--DAGSIOHAGTGLNVTTPG 1061
Qy 211 -----GGLGTPSSFSNNS-----SWMGDPIDANTGCGDSGNT--RGEG----- 248
Db 211 -----GGLGTPSSFSNNS-----SWMGDPIDANTGCGDSGNT--RGEG----- 248
Qy 1062 ALSDVAGQIATYNALARSASLDSNNGTVAQSAQVDANTSLTNRGTLVYGRAGLTATT 1121
Db 1062 ALSDVAGQIATYNALARSASLDSNNGTVAQSAQVDANTSLTNRGTLVYGRAGLTATT 1121
Qy 249 -----QLIGELIDRGLQSVLAAGGL-----GTPVNTPOTGTSANGGSAQODLDQLLGGLLK 299
Db 249 -----QLIGELIDRGLQSVLAAGGL-----GTPVNTPOTGTSANGGSAQODLDQLLGGLLK 299

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Db 1122 OGAFDNTQSGVOTDGNLSVANAGALSNVTGTSIVNGASGNAATATVSASSIDNTSGKLTN 1181  
QY 300 KGEATLKDA-----GQGTDVQSS---AAQATLLVS----- 329  
Db 1182 SSGGATTATATGTSNSAGTNGGNGDVTLGAQTLLTNASAFVAAVASLVTNRVNSG 1241  
QY 330 -TLQGTTR---NQAAA 341  
Db 1242 GTTIVGTAALNINOSGA 1257

RESULT 12  
US-09-086-118-21  
Sequence 21, Application US/09086118  
Patent No. US20010011380A1  
GENERAL INFORMATION:  
APPLICANT: Laby, Ronald J.  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENT ELICITING A HYPERSENSITIVE RESPONSE AND USES  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-21

Query Match 8.2%; Score 138.5; DB 9; Length 338;  
Best Local Similarity 24.5%; Pred. No. 0.006;  
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;  
QY 34 KALOEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEPVIALLD 85  
Db 108 KALDDLLGHDTVTYKLTNQ---SNOLANS-----MLANSQMTQGNMNAFGSGVNNALSSI- 158  
QY 86 KLHLEKLDNFGASADSAGTGGQDLMTQVINGL-----AKSML 124  
Db 159 -----LGNGLG---QSMGFSQPSLGGAGLGGSGAGAFNQLGNALGMVGQNAALSL 209  
QY 125 DDLITKDDGTS--FSSDDMPLMKIAQFMNDNPAQF-----PPDGSQVNE 170  
Db 210 SNVSTHVDGNRRHFEVDKEDRGMAKEIGQFMDQYPEIFGKPEYOKDGMSSPRTDXXWAKA 269

QY 171 LK--EDNPLDDETAARFSAALDIIGQOLGNQSDAG--SLAGTGGLGTSPSSFSNNSVMG 227  
Db 270 LSKPDDGMTGASMDKFRQAMGMIKSAVADDTGNTNINLNGAGG-----ASLGIDAIVG 324  
QY 228 DPLIDANTG 236  
Db 325 DKIANMSLG 333

RESULT 13  
US-09-835-684-1  
Sequence 1, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
APPLICANT: Remick, Dean  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835,684  
CURRENT FILING DATE: 2001-04-16  
PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 1  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Erwinia chrysanthemi  
US-09-835-684-1

Query Match 8.2%; Score 138.5; DB 9; Length 338;  
Best Local Similarity 24.5%; Pred. No. 0.006;  
Matches 61; Conservative 34; Mismatches 85; Indels 69; Gaps 12;  
QY 34 KALOEV-----VVKLAELMRNGQLDSSPLGKLLAKSMADGKA---GGGIEPVIALLD 85  
Db 108 KALDDLLGHDTVTYKLTNQ---SNOLANS-----MLANSQMTQGNMNAFGSGVNNALSSI- 158  
QY 86 KLHLEKLDNFGASADSAGTGGQDLMTQVINGL-----AKSML 124  
Db 159 -----LGNGLG---QSMGFSQPSLGGAGLGGSGAGAFNQLGNALGMVGQNAALSL 209  
QY 125 DDLITKDDGTS--FSSDDMPLMKIAQFMNDNPAQF-----PPDGSQVNE 170  
Db 210 SNVSTHVDGNRRHFEVDKEDRGMAKEIGQFMDQYPEIFGKPEYOKDGMSSPRTDXXWAKA 269  
QY 171 LK--EDNPLDDETAARFSAALDIIGQOLGNQSDAG--SLAGTGGLGTSPSSFSNNSVMG 227  
Db 270 LSKPDDGMTGASMDKFRQAMGMIKSAVADDTGNTNINLNGAGG-----ASLGIDAIVG 324  
QY 228 DPLIDANTG 236  
Db 325 DKIANMSLG 333

RESULT 14  
US-09-880-371-1  
Sequence 1, Application US/09880371  
Patent No. US20020059658A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: DeRoche, Jay  
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
FILE REFERENCE: 21829/91  
CURRENT APPLICATION NUMBER: US/09/880,371  
CURRENT FILING DATE: 2001-06-13  
PRIOR APPLICATION NUMBER: 60/211,585  
PRIOR FILING DATE: 2000-06-15

Search completed: March 11, 2005, 13:14:16  
Job time : 64.8478 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 25.7174 Seconds  
(Without alignments)  
1169.775 Million cell updates/sec

Title: US-09-597-840-3  
Perfect score: 2079  
Sequence: 1 MSALNTSGTGAFTWISIGFA.....DAMMAGDAINMALGKLGAA 403

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/1aa/5A COMB.pep:\*
- 2: /cgn2\_6/ptodata/1/1aa/5B COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/1aa/6A COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/1aa/6B COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/1aa/PTCUS COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2079	100.0	403	2 US-08-200-724A-2	Sequence 2, Appli
2	2079	100.0	403	2 US-09-030-270A-3	Sequence 3, Appli
3	2079	100.0	403	3 US-08-851-376A-2	Sequence 2, Appli
4	2079	100.0	403	3 US-08-984-207-3	Sequence 3, Appli
5	2079	100.0	403	3 US-09-013-587-3	Sequence 3, Appli
6	2079	100.0	403	4 US-09-086-118-23	Sequence 23, Appli
7	2079	100.0	403	4 US-09-431-614-3	Sequence 3, Appli
8	1928	92.7	385	1 US-08-891-254-3	Sequence 3, Appli
9	1928	92.7	385	2 US-08-819-539-3	Sequence 3, Appli
10	1928	92.7	385	5 PCT-US96-08819-3	Sequence 3, Appli
11	1913	92.0	385	5 PCT-US93-06243-2	Sequence 2, Appli
12	718.5	34.6	338	1 US-08-891-254-1	Sequence 1, Appli
13	718.5	34.6	338	2 US-08-484-358-2	Sequence 1, Appli
14	718.5	34.6	338	2 US-08-819-539-1	Sequence 1, Appli
15	718.5	34.6	338	2 US-09-030-270A-1	Sequence 1, Appli
16	718.5	34.6	338	3 US-09-118-959-2	Sequence 2, Appli
17	718.5	34.6	338	3 US-08-984-207-1	Sequence 1, Appli
18	718.5	34.6	338	3 US-09-013-587-1	Sequence 1, Appli
19	718.5	34.6	338	4 US-09-086-118-21	Sequence 21, Appli
20	718.5	34.6	338	4 US-09-431-614-1	Sequence 1, Appli
21	718.5	34.6	338	5 PCT-US96-08819-1	Sequence 1, Appli
22	211.5	10.2	318	4 US-09-060-756-727	Sequence 727, App
23	211.5	10.2	318	4 US-09-670-314-727	Sequence 727, App
24	211.5	10.2	651	3 US-08-556-978B-19	Sequence 19, Appli
25	211.5	10.2	651	3 US-09-247-806-1	Sequence 1, Appli
26	211.5	10.2	651	4 US-09-863-859-1	Sequence 1, Appli
27	211.5	10.2	718	1 US-08-425-069-2	Sequence 2, Appli

28	211.5	10.2	718	2 US-08-317-844B-2	Sequence 2, Appli
29	211.5	10.2	747	3 US-09-034-177-3	Sequence 3, Appli
30	206	9.9	604	3 US-08-356-978B-63	Sequence 63, Appli
31	204	9.8	528	4 US-09-490-291-8	Sequence 8, Appli
32	203.5	9.8	975	4 US-09-328-352-4764	Sequence 4764, Ap
33	199.5	9.6	334	4 US-09-060-756-728	Sequence 728, App
34	199.5	9.6	334	4 US-09-670-314-728	Sequence 728, App
35	198.5	9.5	738	3 US-08-864-038A-3	Sequence 3, Appli
36	198	9.5	606	3 US-09-247-806-6	Sequence 6, Appli
37	197.5	9.5	344	1 US-08-891-254-7	Sequence 7, Appli
38	197.5	9.5	344	2 US-08-819-539-7	Sequence 7, Appli
39	197.5	9.5	344	2 US-09-030-270A-7	Sequence 7, Appli
40	197.5	9.5	344	3 US-08-984-207-7	Sequence 7, Appli
41	197.5	9.5	344	3 US-09-013-587-7	Sequence 7, Appli
42	197.5	9.5	344	4 US-09-086-118-27	Sequence 27, Appli
43	197.5	9.5	344	4 US-09-431-614-15	Sequence 15, Appli
44	197.5	9.5	344	5 PCT-US96-08819-7	Sequence 7, Appli
45	197	9.5	606	3 US-08-556-978B-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1  
US-08-200-724A-2

Sequence 2, Application US/08200724A

Patent No. 5849868

GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min

APPLICANT: Bauer, David W.

APPLICANT: Beer, Steven V.

APPLICANT: Collier, Alan

APPLICANT: He, Sheng-Yang

APPLICANT: Lab, Ron J.

TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE

TITLE OF INVENTION: IN PLANTS

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle

STREET: Clinton Square

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/200,724A

FILING DATE: 23-FEB-1994

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

TELEPHONE: (716) 263-1304

TELECOMMUNICATION INFORMATION:

REFERENCE/DOCKET NUMBER: 19603/10030

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 403 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: peptide

US-08-200-724A-2

Query Match 100.0%; Score 2079; DB 2; Length 403;

Best Local Similarity 100.0%; Pred. No. 8,7e-174;

Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGSNSALGIGGNQNDTVNQLAGLL 60
Db 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGSNSALGIGGNQNDTVNQLAGLL 60
QY 61 TGMNMMNMMGGGGLMGGGLGGGGLGGGGLGEGLSNALNDMLGGSINTLGSKGGNN 120
Db 61 TGMNMMNMMGGGGLMGGGLGGGGLGGGGLGEGLSNALNDMLGGSINTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLLKMFSIMQSLFGDQDGT 180
Db 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLLKMFSIMQSLFGDQDGT 180
QY 181 QGSSSGGKOPTBEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
Db 181 QGSSSGGKOPTBEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
QY 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
Db 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
QY 301 GQFMDQYPEVFGKPYQYKGGQEVKTDKSMAYKALSKPDDGMPASMEOFNKAKGMIKR 360
Db 301 GQFMDQYPEVFGKPYQYKGGQEVKTDKSMAYKALSKPDDGMPASMEOFNKAKGMIKR 360
QY 361 PMAGDTGNNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
Db 361 PMAGDTGNNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

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RESULT 2
US-09-030-270A-3
; Sequence 3, Application US/09030270A
; Patent No. 597060

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; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hartgrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030.270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1364
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-3

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Query Match 100.0%; Score 2079; DB 2; Length 403;
Best Local Similarity 100.0%; Pred. No. 8.7e-174; Indels 0; Gaps 0;
Matches 403; Conservative 0; Mismatches 0;

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QY 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGSNSALGIGGNQNDTVNQLAGLL 60
Db 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGSNSALGIGGNQNDTVNQLAGLL 60
QY 61 TGMNMMNMMGGGGLMGGGLGGGGLGGGGLGEGLSNALNDMLGGSINTLGSKGGNN 120
Db 61 TGMNMMNMMGGGGLMGGGLGGGGLGGGGLGEGLSNALNDMLGGSINTLGSKGGNN 120
QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLLKMFSIMQSLFGDQDGT 180
Db 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDTSBSSDPMOQLLKMFSIMQSLFGDQDGT 180
QY 181 QGSSSGGKOPTBEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
Db 181 QGSSSGGKOPTBEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDSSSL 240
QY 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
Db 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGRAMAKEI 300
QY 301 GQFMDQYPEVFGKPYQYKGGQEVKTDKSMAYKALSKPDDGMPASMEOFNKAKGMIKR 360
Db 301 GQFMDQYPEVFGKPYQYKGGQEVKTDKSMAYKALSKPDDGMPASMEOFNKAKGMIKR 360
QY 361 PMAGDTGNNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403
Db 361 PMAGDTGNNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

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RESULT 3
US-08-851-376A-2
; Sequence 2, Application US/08851376A
; Patent No. 617417

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; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Bauer, David W.
; APPLICANT: Collier, Alan
; APPLICANT: He, Sheng-Yang
; APPLICANT: Laby, Ron
; TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE
; TITLE OF INVENTION: IN PLANTS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon Peabody LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851,376A
; FILING DATE: 05-MAY-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/200,724
; FILING DATE: 23-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/10035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304

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TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 100.0%; Score 2079; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8,7e-174;  
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLTSLGASSTWQISIGAGGNNGLIGTSRONAGLGNSALGIGGNQNDTVNQLAGLL 60  
DB 1 MSLLTSLGASSTWQISIGAGGNNGLIGTSRONAGLGNSALGIGGNQNDTVNQLAGLL 60  
QY 61 TGMAMMMSMWGGGGLMGCGGLGCGGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLAGSKGNN 120  
DB 61 TGMAMMMSMWGGGGLMGCGGLGCGGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLAGSKGNN 120  
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180  
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180  
QY 181 QGSSSGGKOPTEBQGNAYKKGVTDALSLGMNGISQLLNGGGLGCGGAGNAGTGLDSSSL 240  
DB 181 QGSSSGGKOPTEBQGNAYKKGVTDALSLGMNGISQLLNGGGLGCGGAGNAGTGLDSSSL 240  
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNGDPAKAEI 300  
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNGDPAKAEI 300  
QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
DB 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
QY 361 PMAGDTGNGNLQARGAGSSSIGIDAMMAGDAINNMALGKLGA 403  
DB 361 PMAGDTGNGNLQARGAGSSSIGIDAMMAGDAINNMALGKLGA 403

RESULT 4  
US-08-984-207-3  
; Sequence 3, Application US/08984207  
; Patent No. 6235974  
; GENERAL INFORMATION:  
; APPLICANT: Oiu, Dwen  
; APPLICANT: Mei, Zhong-Min  
; APPLICANT: Beef, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/984,207  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/033,230  
; FILING DATE: 05-DEC-1996

ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1201  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-984-207-3

Query Match 100.0%; Score 2079; DB 3; Length 403;  
Best Local Similarity 100.0%; Pred. No. 8,7e-174;  
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSLLTSLGASSTWQISIGAGGNNGLIGTSRONAGLGNSALGIGGNQNDTVNQLAGLL 60  
DB 1 MSLLTSLGASSTWQISIGAGGNNGLIGTSRONAGLGNSALGIGGNQNDTVNQLAGLL 60  
QY 61 TGMAMMMSMWGGGGLMGCGGLGCGGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLAGSKGNN 120  
DB 61 TGMAMMMSMWGGGGLMGCGGLGCGGLGNGLGSGGGLGEGLSNALNDMLGSLNTTLAGSKGNN 120  
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180  
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSTSDSDPMQQLKMFSEIMOSLFGDQDGT 180  
QY 181 QGSSSGGKOPTEBQGNAYKKGVTDALSLGMNGISQLLNGGGLGCGGAGNAGTGLDSSSL 240  
DB 181 QGSSSGGKOPTEBQGNAYKKGVTDALSLGMNGISQLLNGGGLGCGGAGNAGTGLDSSSL 240  
QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNGDPAKAEI 300  
DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNGDPAKAEI 300  
QY 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
DB 301 GQFMDQYPEVFGKQYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
QY 361 PMAGDTGNGNLQARGAGSSSIGIDAMMAGDAINNMALGKLGA 403  
DB 361 PMAGDTGNGNLQARGAGSSSIGIDAMMAGDAINNMALGKLGA 403

RESULT 5  
US-09-013-587-3  
; Sequence 3, Application US/09013587  
; Patent No. 6277814  
; GENERAL INFORMATION:  
; APPLICANT: Oiu, Dwen  
; APPLICANT: Mei, Zhong-Min  
; APPLICANT: Beef, Steven V.  
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/013,587

FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/036,048  
 FILING DATE: 27-JAN-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/1501  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 403 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-013-587-3

Query Match 100.0%; Score 2079; DB 3; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 8.7e-174; Indels 0; Gaps 0;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTMIOISIGAGAGNNGLGSTRONAGLGNSALGIGGNDNTVNLGL 60  
 DB 1 MSNTSGIGASTMIOISIGAGAGNNGLGSTRONAGLGNSALGIGGNDNTVNLGL 60  
 QY 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120  
 DB 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120  
 QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDSSDPMOQLKMFSEIMQSLFDDGDDGT 180  
 DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDSSDPMOQLKMFSEIMQSLFDDGDDGT 180  
 QY 181 QGSSSGGKOPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGAGTGLDSSSL 240  
 DB 181 QGSSSGGKOPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGAGTGLDSSSL 240  
 QY 241 GKGGLQNLGSPVDYQOLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300  
 DB 241 GKGGLQNLGSPVDYQOLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300  
 QY 301 GQFMDOYPEVFGKPOYQKGPQEVKTDDKSWAKALSKPDDGMPASMEQFNKAKMIKR 360  
 DB 301 GQFMDOYPEVFGKPOYQKGPQEVKTDDKSWAKALSKPDDGMPASMEQFNKAKMIKR 360  
 QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403  
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 6  
 US-09-086-118-23  
 Sequence 23, Application US/09086118  
 Patent No. 6583107

GENERAL INFORMATION:  
 APPLICANT: Lady, Ronald J.  
 APPLICANT: Beer, Steven V.  
 APPLICANT: Wei, Zhong-Min  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
 TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
 NUMBER OF SEQUENCES: 30  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/086,118  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/048,109  
 FILING DATE: 30-MAY-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/1301  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 23:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 403 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-086-118-23

Query Match 100.0%; Score 2079; DB 4; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 8.7e-174; Indels 0; Gaps 0;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTMIOISIGAGAGNNGLGSTRONAGLGNSALGIGGNDNTVNLGL 60  
 DB 1 MSNTSGIGASTMIOISIGAGAGNNGLGSTRONAGLGNSALGIGGNDNTVNLGL 60  
 QY 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120  
 DB 61 TGMNMMNMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNN 120  
 QY 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDSSDPMOQLKMFSEIMQSLFDDGDDGT 180  
 DB 121 TTSTTNSPLDQALGINSTSQNDSTSGTSDSSDPMOQLKMFSEIMQSLFDDGDDGT 180  
 QY 181 QGSSSGGKOPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGAGTGLDSSSL 240  
 DB 181 QGSSSGGKOPTGEGRONAYKKGVTDALSGLMNGLSQLLGNGLGGGCGGAGTGLDSSSL 240  
 QY 241 GKGGLQNLGSPVDYQOLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300  
 DB 241 GKGGLQNLGSPVDYQOLGNNAVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKDRPAAKEI 300  
 QY 301 GQFMDOYPEVFGKPOYQKGPQEVKTDDKSWAKALSKPDDGMPASMEQFNKAKMIKR 360  
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 QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403  
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGA 403

RESULT 7  
 US-09-431-614-3  
 Sequence 3, Application US/09431614  
 Patent No. 6624139

GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Schading, Richard L.  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
 TITLE OF INVENTION: RESISTANCE  
 FILE REFERENCE: 21829/41 (EBC-003)  
 CURRENT APPLICATION NUMBER: US/09/431,614  
 CURRENT FILING DATE: 1999-11-02

EARLIER APPLICATION NUMBER: 60/107,243  
 EARLIER FILING DATE: 1998-11-05  
 NUMBER OF SEQ ID NOS: 18  
 SOFTWARE: Patent Ver. 2.0  
 SEQ ID NO 3  
 LENGTH: 403  
 TYPE: PR  
 ORGANISM: Erwinia amylovora  
 US-09-431-614-3

Query Match 100.0%; Score 2079; DB 4; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 8,7e-174;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSMTSGIGASTMIGAGAGNGLGTSRONAGLGNLSALGAGGQNDTVNQLAGLL 60  
 DB 1 MSMTSGIGASTMIGAGAGNGLGTSRONAGLGNLSALGAGGQNDTVNQLAGLL 60  
 QY 61 TGMNMMMSMGGGGIMGGGLGGLGNGLGSGGGLGEGLSNLANMDLGGSLNTLGSKGGNN 120  
 DB 61 TGMNMMMSMGGGGIMGGGLGGLGNGLGSGGGLGEGLSNLANMDLGGSLNTLGSKGGNN 120  
 QY 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180  
 DB 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180  
 QY 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSSL 240  
 DB 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSSL 240  
 QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRMAKEI 300  
 DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRMAKEI 300  
 QY 301 GQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360  
 DB 301 GQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360  
 QY 361 PMADDTGNGNIQARGAGSSIGIDAMAGDAINMALGKLGA 403  
 DB 361 PMADDTGNGNIQARGAGSSIGIDAMAGDAINMALGKLGA 403

RESULT 8  
 US-08-891-254-3  
 Sequence 3, Application US/08891254  
 Patent No. 5776889  
 GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Beer, Steven V.  
 TITLE OF INVENTION: Hypersensitive Response  
 TITLE OF INVENTION: Induced Resistance in Plants  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/891,254  
 FILING DATE: 10-JUL-1997  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/475,775  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 14603/10050  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 385 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-891-254-3

Query Match 92.7%; Score 1928; DB 1; Length 385;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-160;  
 Matches 372; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSMTSGIGASTMIGAGAGNGLGTSRONAGLGNLSALGAGGQNDTVNQLAGLL 60  
 DB 1 MSMTSGIGASTMIGAGAGNGLGTSRONAGLGNLSALGAGGQNDTVNQLAGLL 60  
 QY 61 TGMNMMMSMGGGGIMGGGLGGLGNGLGSGGGLGEGLSNLANMDLGGSLNTLGSKGGNN 120  
 DB 61 TGMNMMMSMGGGGIMGGGLGGLGNGLGSGGGLGEGLSNLANMDLGGSLNTLGSKGGNN 120  
 QY 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180  
 DB 121 TTSTTNSPLDQALGINSTQNDSTGTDSTSDSDPMQQLKMFSEIMQSLFGDGODGT 180  
 QY 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSSL 240  
 DB 181 QGSSSGGKQPTGEGONAYKKVTDALSGLMNGLSQLLGNGLGGGCGNAGTGLDSSSL 240  
 QY 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRMAKEI 300  
 DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIMKAGIQALNDIGTHRSSSTRSFVNGDRMAKEI 300  
 QY 301 GQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360  
 DB 301 GQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGM1KR 360  
 QY 361 PMADDTGNGNIQ 372  
 DB 361 PMADDTGNGNIQ 372

RESULT 9  
 US-08-819-539-3  
 Sequence 3, Application US/08819539  
 Patent No. 5859324  
 GENERAL INFORMATION:  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Beer, Steven V.  
 TITLE OF INVENTION: Hypersensitive Response  
 TITLE OF INVENTION: Induced Resistance in Plants  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/819,539  
 FILING DATE: 17-MAR-1997

CLASSIFICATION: 800  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/475,775  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 14603/10050  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 385 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-819-539-3

Query Match 92.7%; Score 1928; DB 2; Length 385;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-160; Indels 0; Gaps 0;  
 Matches 372; Conservative 0; Mismatches 0;

QY 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNDVTYNQLAGLL 60  
 DB 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNDVTYNQLAGLL 60  
 QY 61 TGMNMMNMMGGGGLMGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120  
 DB 61 TGMNMMNMMGGGGLMGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120  
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 QY 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGNGAGTGLDSSSL 240  
 DB 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGNGAGTGLDSSSL 240  
 QY 241 GKGKQLNLSGPDVYQQLGNNAVGTGIGKAKGIGQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300  
 DB 241 GKGKQLNLSGPDVYQQLGNNAVGTGIGKAKGIGQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300  
 QY 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSFPDDGMPASMEOFNKAKGMIKR 360  
 DB 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSFPDDGMPASMEOFNKAKGMIKR 360  
 QY 361 PMAGDTGNGNLQ 372  
 DB 361 PMAGDTGNGNLQ 372

RESULT 10  
 PCT-US96-08819-3  
 Sequence 3, Application PC/TUS9608819  
 GENERAL INFORMATION:  
 APPLICANT: Cornell Research Foundation, Inc.  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
 TITLE OF INVENTION: RESISTANCE IN PLANTS  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Nixon, Hargrave, Devane & Doyle LLP  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/08819  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/475,775  
 FILING DATE: 07-JUN-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/10051  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 385 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PCT-US96-08819-3

Query Match 92.7%; Score 1928; DB 5; Length 385;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-160; Indels 0; Gaps 0;  
 Matches 372; Conservative 0; Mismatches 0;

QY 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNDVTYNQLAGLL 60  
 DB 1 MSINTSGLGASTWQISIGAGAGNNGLGTSRONAGLGNSALGCGGNDVTYNQLAGLL 60  
 QY 61 TGMNMMNMMGGGGLMGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120  
 DB 61 TGMNMMNMMGGGGLMGGLGGGIGNGIGSGGIGEGISNALNDMLGSLNTLGSKGGNN 120  
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDTSDSDPMQQLKMFSEIMQSLFDDGDDGT 180  
 QY 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGNGAGTGLDSSSL 240  
 DB 181 QGSSSGGKOPTBGRONAYKKGVTDALSGLMNGLSQLLGNGLGCGGNGAGTGLDSSSL 240  
 QY 241 GKGKQLNLSGPDVYQQLGNNAVGTGIGKAKGIGQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300  
 DB 241 GKGKQLNLSGPDVYQQLGNNAVGTGIGKAKGIGQALNDIGTRHSSSTRSFVNKGDRAMAKEI 300  
 QY 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSFPDDGMPASMEOFNKAKGMIKR 360  
 DB 301 GQFMDQYPEVFGKPYQKPGQEVKTDKSWAKALSFPDDGMPASMEOFNKAKGMIKR 360  
 QY 361 PMAGDTGNGNLQ 372  
 DB 361 PMAGDTGNGNLQ 372

RESULT 11  
 PCT-US93-06243-2  
 Sequence 2, Application PC/TUS9306243  
 GENERAL INFORMATION:  
 APPLICANT: Zhong-Min Wei, David W. Bauer, Steven V.  
 TITLE OF INVENTION: Elicitor of the Hypersensitive Response in Plants  
 NUMBER OF SEQUENCES: 5  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Yahwak & Associates  
 STREET: 25 Skytop Drive  
 CITY: Trumbull  
 STATE: Connecticut  
 COUNTRY: USA  
 ZIP: 06611  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk

COMPUTER: Macintosh  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/06243  
FILING DATE: 19930630  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 907,935  
FILING DATE: 01-JUL-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: George M. Yahwak  
REGISTRATION NUMBER: 26,824  
REFERENCE/DOCKET NUMBER: CRF D-1172  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (203) 268-1951  
TELEFAX: (203) 268-1951  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 385 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
PCT-US93-06243-2

Query Match 92.0%; Score 1913; DB 5; Length 385;  
Best Local Similarity 99.5%; Pred. No. 2,7e-159;  
Matches 369; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSLLTSGIGASTWQISIGAGAGNGLGSTRONAGLGSNSALGCGGNQNTVQALGL 60  
DB 1 MSLLTSGIGASTWQISIGAGAGNGLGSTRONAGLGSNSALGCGGNQNTVQALGL 60  
QY 61 TGMNMMMSWGGGGLMGGLGGGLGNGLGSGGGLGEGLSNLTLLTLLSGKGGN 120  
DB 61 TGMNMMMSWGGGGLMGGLGGGLGNGLGSGGGLGEGLSNLTLLTLLSGKGGN 120  
QY 121 TTSTTNSPLDQALGINSTQNDSTSGTSDSDPQQQLKMFSEIMQSLFGGQDGT 180  
DB 121 TTSTTNSPLDQALGINSTQNDSTSGTSDSDPQQQLKMFSEIMQSLFGGQDGT 180  
QY 181 QGSSSGGKOPTGEGRONAYKKGVTDALSGLMGNGLSQLLGGGCGGNGGTGLDSSL 240  
DB 181 QGSSSGGKOPTGEGRONAYKKGVTDALSGLMGNGLSQLLGGGCGGNGGTGLDSSL 240  
QY 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTHRSSSTRSPVNGDRAMAKEI 300  
DB 241 GKGGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTHRSSSTRSPVNGDRAMAKEI 300  
QY 301 GQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
DB 301 GQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
QY 361 PMAGDTGNGNL 371  
DB 361 PMAGDTGNGNL 371

RESULT 12  
US-08-891-254-1  
Sequence 1, Application US/08891254  
Patent No. 5776889  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance in Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester

STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,254  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-1

Query Match 34.6%; Score 718.5; DB 1; Length 338;  
Best Local Similarity 42.8%; Pred. No. 7.1e-55;  
Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MQISI-GGAGGNNGLGSTRONAGLGG-NSA---LGLGGGNQNTVQALGLTGMNMM 67  
DB 1 MQITIKAHIGDGLVSGLGAQ--GLKGLNSAASSLVSDLSITDKLTALISM--- 55  
QY 68 SMMGGGLMGGLGGGLGNGLGSGGGLGEGLSNLTLLTLLSGKGGNNTTSTNS 127  
DB 56 -----FGGALAQGLGAS-SKGLGMSNQLGQSFN-----GAQGANLLSYPK- 96  
QY 128 PLDQALGINSTQNDSTSGTSDSDPQQQLKMFSEIMQSLFG-----DQDGS 179  
DB 97 -----SGGDALS-----KMFEDKALDPLGHDVTYKLTNQSNO 128  
QY 180 TQSSSGGKOPTGEGRONAYKKGVTDALSGLMGNGLSQLLGGGCGGNGAGTGLDSS 239  
DB 129 LANSMLASQMTQGMNNAFGGCVNNALSSILNGLGSM-----SGFQPS 174  
QY 240 LGGKGLQNLGSPVDYQOLGNAVGTGIGMKAGIQALNDIGTHRSSSTRSPVNGDRAMAKE 299  
DB 175 LGAGGLQGLSGAGAFNQLGNAIGMVGQNALSLSNVSTIVDGNHFFVDEKEDGMAKE 234  
QY 300 IGQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 359  
DB 235 IGQFMDQYPEVFGKPOYQKGPQEVKTDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 294  
QY 360 RPMAGDTGNGNLQARGAGSSSLGIDAMAGDAINNMALGKGLAA 403  
DB 295 SAVAGDTGNTNLNLRGAGGASLGIIDAAVDDKIANMNLGLKLANA 338

RESULT 13  
US-08-484-358-2  
Sequence 2, Application US/08484358  
Patent No. 5850015  
GENERAL INFORMATION:  
APPLICANT: Bauer, David  
APPLICANT: Collier, Alan  
TITLE OF INVENTION: Hypersensitive Response Elicitor  
TITLE OF INVENTION: From

TITLE OF INVENTION: Erwinia Chrysanthemi  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/484,358  
FILING DATE:  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/840  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1304  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-358-2

Query Match 34.6%; Score 718.5; DB 2; Length 338;  
Best Local Similarity 42.8%; Pred. No. 7.1e-55;  
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;  
Db 13 MOISI-GGAGNNGLGTSRQNAIGG-NSA---LGIGGQNQNTVQNLGLTGMMM 67  
1 MQITIKAHIGDGLVSGIGAQ--GKGLNSAASLGSSVDLSTIDKLTSLTSM--- 55  
Qy 68 SMWGGGGLMGGLGGGGLGSGGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNS 127  
Db 56 -----FCGALAQGLGAS-SKGLGMSNQLGSGFGN---GAQGASNDLSVPK- 96  
Qy 128 PLDQALGINSTQNDSTSGTSDTSDDSPWQQLKMFSEIMQSLFG-----DQDQ 179  
Db 97 -----SGGDALS-----KMFDRKALDDLGHDTVTYTKLTNSNQ 128  
Qy 180 TQSSSGGKQPTGEQONAYKKGVTDALSGLMNGLSQLLNGGGLGGGQGNAGTGLDSS 239  
Db 129 LANSMLNASQMTQGNMNAFGSGVNNALSLILNGLGQSM-----SGFQPS 174  
Qy 240 LGKGLQNLGSPVYQQLGNAVGTGIGMKAGIQALNDIGTHRSSTRSFVNKGRMAKE 299  
Db 175 LGAGGLQGLSGAGAFNQLGNAIGWGVQNALSLSNVSTHVDDGNHFFVKEDRGMAKE 234  
Qy 300 IGGEMDQPEVFGKPYQKPGQGEVKTDDKSMAKALSPPDDGWT PASMEOFNKAKGMK 359  
Db 235 IGGEMDQPELFGKPEYQKDGMSSPKTTDDKSMAKALSPPDDGWTGASMDKFRQMGK 294  
Qy 360 RPMAGDTGNGMLQARGAGSSLGIDAMWAGDAINNMALGKLGA 403  
Db 295 SAVAGDTGNTNLNRGAGGASLGIDAIVVGBKIANMSLGKLANA 338

RESULT 14  
US-08-819-539-1  
Sequence 1, Application US/08819539  
Patent No. 5859324  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min

APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance In Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/819,539  
FILING DATE: 17-MAR-1997  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS: linear  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-819-539-1

Query Match 34.6%; Score 718.5; DB 2; Length 338;  
Best Local Similarity 42.8%; Pred. No. 7.1e-55;  
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;  
Db 13 MOISI-GGAGNNGLGTSRQNAIGG-NSA---LGIGGQNQNTVQNLGLTGMMM 67  
1 MQITIKAHIGDGLVSGIGAQ--GKGLNSAASLGSSVDLSTIDKLTSLTSM--- 55  
Qy 68 SMWGGGGLMGGLGGGGLGSGGGLGEGLSNALNDMLGSLNTLGSKGNNTTSTNS 127  
Db 56 -----FCGALAQGLGAS-SKGLGMSNQLGSGFGN---GAQGASNDLSVPK- 96  
Qy 128 PLDQALGINSTQNDSTSGTSDTSDDSPWQQLKMFSEIMQSLFG-----DQDQ 179  
Db 97 -----SGGDALS-----KMFDRKALDDLGHDTVTYTKLTNSNQ 128  
Qy 180 TQSSSGGKQPTGEQONAYKKGVTDALSGLMNGLSQLLNGGGLGGGQGNAGTGLDSS 239  
Db 129 LANSMLNASQMTQGNMNAFGSGVNNALSLILNGLGQSM-----SGFQPS 174  
Qy 240 LGKGLQNLGSPVYQQLGNAVGTGIGMKAGIQALNDIGTHRSSTRSFVNKGRMAKE 299  
Db 175 LGAGGLQGLSGAGAFNQLGNAIGWGVQNALSLSNVSTHVDDGNHFFVKEDRGMAKE 234  
Qy 300 IGGEMDQPEVFGKPYQKPGQGEVKTDDKSMAKALSPPDDGWT PASMEOFNKAKGMK 359  
Db 235 IGGEMDQPELFGKPEYQKDGMSSPKTTDDKSMAKALSPPDDGWTGASMDKFRQMGK 294  
Qy 360 RPMAGDTGNGMLQARGAGSSLGIDAMWAGDAINNMALGKLGA 403  
Db 295 SAVAGDTGNTNLNRGAGGASLGIDAIVVGBKIANMSLGKLANA 338

RESULT 15





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GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: March 11, 2005, 12:45:48 ; Search time 75.4565 Seconds

(without alignments)  
1761.643 Million cell updates/sec

Title: US-09-597-840-3

Perfect score: 2079  
Sequence: 1 MSANTSLGLASTMQLSTIGCA.....DAMAGDAINMALGKLGAA 403

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1396920 seqs, 329844858 residues

Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*

2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*

3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*

4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*

6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:\*

7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:\*

8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*

9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*

10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*

11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*

12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*

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16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep:\*

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19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*

20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2079	100.0	403	9	US-09-086-118-23
2	2079	100.0	403	9	US-09-835-684-3
3	2079	100.0	403	9	US-09-880-371-3
4	2079	100.0	403	9	US-09-879-248-3
5	2079	100.0	403	9	US-09-770-693-3
6	2079	100.0	403	9	US-09-766-348-3
7	2079	100.0	403	14	US-10-034-158-3
8	2079	100.0	403	14	US-10-010-390-3
9	2079	100.0	403	14	US-10-367-806-23
10	2079	100.0	403	15	US-10-441-736-3
11	718.5	34.6	338	9	US-09-086-118-21
12	718.5	34.6	338	9	US-09-835-684-1
13	718.5	34.6	338	9	US-09-880-371-1

14	718.5	34.6	338	9	US-09-879-248-1	Sequence 1, Appli
15	718.5 <th>34.6</th> <th>338</th> <th>9</th> <th>US-09-770-693-1</th> <th>Sequence 1, Appli</th>	34.6	338	9	US-09-770-693-1	Sequence 1, Appli
16	718.5 <th>34.6</th> <th>338</th> <th>9</th> <th>US-09-766-348-1</th> <th>Sequence 1, Appli</th>	34.6	338	9	US-09-766-348-1	Sequence 1, Appli
17	718.5 <th>34.6</th> <th>338</th> <th>14</th> <th>US-10-034-158-1</th> <th>Sequence 1, Appli</th>	34.6	338	14	US-10-034-158-1	Sequence 1, Appli
18	718.5 <th>34.6</th> <th>338</th> <th>14</th> <th>US-10-010-390-1</th> <th>Sequence 21, Appli</th>	34.6	338	14	US-10-010-390-1	Sequence 21, Appli
19	718.5 <th>34.6</th> <th>338</th> <th>14</th> <th>US-10-367-806-21</th> <th>Sequence 1, Appli</th>	34.6	338	14	US-10-367-806-21	Sequence 1, Appli
20	718.5 <th>34.6</th> <th>338</th> <th>15</th> <th>US-10-441-736-1</th> <th>Sequence 64363, A</th>	34.6	338	15	US-10-441-736-1	Sequence 64363, A
21	255 <th>12.3</th> <th>591</th> <th>15</th> <th>US-10-282-122A-64363</th> <th>Sequence 64895, A</th>	12.3	591	15	US-10-282-122A-64363	Sequence 64895, A
22	248 <th>11.9</th> <th>1381</th> <th>15</th> <th>US-10-282-122A-64895</th> <th>Sequence 64869, A</th>	11.9	1381	15	US-10-282-122A-64895	Sequence 64869, A
23	247 <th>11.9</th> <th>588</th> <th>15</th> <th>US-10-282-122A-64869</th> <th>Sequence 20, Appli</th>	11.9	588	15	US-10-282-122A-64869	Sequence 20, Appli
24	246.5 <th>11.9</th> <th>1079</th> <th>15</th> <th>US-09-820-843A-20</th> <th>Sequence 64474, A</th>	11.9	1079	15	US-09-820-843A-20	Sequence 64474, A
25	245 <th>11.8</th> <th>923</th> <th>15</th> <th>US-10-282-122A-64474</th> <th>Sequence 64751, A</th>	11.8	923	15	US-10-282-122A-64474	Sequence 64751, A
26	242 <th>11.6</th> <th>778</th> <th>15</th> <th>US-10-282-122A-64751</th> <th>Sequence 64361, A</th>	11.6	778	15	US-10-282-122A-64751	Sequence 64361, A
27	241.5 <th>11.6</th> <th>957</th> <th>15</th> <th>US-10-282-122A-64361</th> <th>Sequence 64617, A</th>	11.6	957	15	US-10-282-122A-64361	Sequence 64617, A
28	238.5 <th>11.3</th> <th>515</th> <th>15</th> <th>US-10-282-122A-64613</th> <th>Sequence 64606, A</th>	11.3	515	15	US-10-282-122A-64613	Sequence 64606, A
29	235.5 <th>11.3</th> <th>914</th> <th>15</th> <th>US-10-282-122A-64606</th> <th>Sequence 62304, A</th>	11.3	914	15	US-10-282-122A-64606	Sequence 62304, A
30	235 <th>11.3</th> <th>439</th> <th>15</th> <th>US-10-282-122A-64905</th> <th>Sequence 64381, A</th>	11.3	439	15	US-10-282-122A-64905	Sequence 64381, A
31	235 <th>11.3</th> <th>505</th> <th>15</th> <th>US-10-282-122A-62341</th> <th>Sequence 64786, A</th>	11.3	505	15	US-10-282-122A-62341	Sequence 64786, A
32	233.5 <th>11.2</th> <th>615</th> <th>15</th> <th>US-10-282-122A-64362</th> <th>Sequence 64537, A</th>	11.2	615	15	US-10-282-122A-64362	Sequence 64537, A
33	232 <th>11.2</th> <th>837</th> <th>15</th> <th>US-10-282-122A-64362</th> <th>Sequence 64537, A</th>	11.2	837	15	US-10-282-122A-64362	Sequence 64537, A
34	229.5 <th>11.0</th> <th>603</th> <th>15</th> <th>US-10-282-122A-64537</th> <th>Sequence 64494, A</th>	11.0	603	15	US-10-282-122A-64537	Sequence 64494, A
35	228.5 <th>11.0</th> <th>486</th> <th>16</th> <th>US-10-437-963-117435</th> <th>Sequence 64558, A</th>	11.0	486	16	US-10-437-963-117435	Sequence 64558, A
36	228.5 <th>11.0</th> <th>667</th> <th>15</th> <th>US-10-282-122A-64494</th> <th>Sequence 64547, A</th>	11.0	667	15	US-10-282-122A-64494	Sequence 64547, A
37	226.5 <th>10.9</th> <th>491</th> <th>15</th> <th>US-10-282-122A-64547</th> <th>Sequence 64726, A</th>	10.9	491	15	US-10-282-122A-64547	Sequence 64726, A
38	226.5 <th>10.9</th> <th>576</th> <th>15</th> <th>US-10-282-122A-64547</th> <th>Sequence 64405, A</th>	10.9	576	15	US-10-282-122A-64547	Sequence 64405, A
39	226 <th>10.9</th> <th>694</th> <th>15</th> <th>US-10-282-122A-64405</th> <th>Sequence 64514, A</th>	10.9	694	15	US-10-282-122A-64405	Sequence 64514, A
40	225.5 <th>10.8</th> <th>1011</th> <th>15</th> <th>US-10-282-122A-64405</th> <th>Sequence 64867, A</th>	10.8	1011	15	US-10-282-122A-64405	Sequence 64867, A
41	224 <th>10.8</th> <th>1306</th> <th>15</th> <th>US-10-282-122A-64867</th> <th>Sequence 64658, A</th>	10.8	1306	15	US-10-282-122A-64867	Sequence 64658, A
42	223 <th>10.7</th> <th>562</th> <th>15</th> <th>US-10-282-122A-64514</th> <th>Sequence 64658, A</th>	10.7	562	15	US-10-282-122A-64514	Sequence 64658, A
43	220.5 <th>10.6</th> <th>484</th> <th>15</th> <th>US-10-282-122A-64867</th> <th>Sequence 64658, A</th>	10.6	484	15	US-10-282-122A-64867	Sequence 64658, A
44	220.5 <th>10.6</th> <th>484</th> <th>15</th> <th>US-10-282-122A-64867</th> <th>Sequence 64658, A</th>	10.6	484	15	US-10-282-122A-64867	Sequence 64658, A
45	220 <th>10.6</th> <th>532</th> <th>15</th> <th>US-10-282-122A-64658</th> <th>Sequence 64658, A</th>	10.6	532	15	US-10-282-122A-64658	Sequence 64658, A

## ALIGNMENTS

RESULT 1

US-09-086-118-23

Sequence 23, Application US/09086118

Patent No. US20010011380A1

GENERAL INFORMATION:

APPLICANT: Laby, Ronald J.

APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES THEREOF

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109

FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/1301

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 23:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 403 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-086-118-23

Query Match 100.0%; Score 2079; DB 9; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1,2e-156;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTWQISIGAGANNGLGTSRQNAIGGNSALGIGGQNDVTNQLAGLL 60  
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 DB 181 QGSSSGGKQPTREGONAYKKVTDALSLMGNGLSQLLGNGLGGGQGNAGTGLDSSSL 240  
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 DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAMAKEI 300  
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 DB 301 GQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSFPDDGMPASMEQFNKAKGMIKR 360  
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 DB 361 PMAGDTGNGNLQARAGAGSSSLGIDAMAGDAINNMALGKLGA 403

## RESULT 2

US-09-835-684-3  
 ; Sequence 3, Application US/09835684  
 ; Patent No. US20020019337A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Qiu, Dewen  
 ; APPLICANT: Renick, Dean  
 ; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
 ; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
 ; FILE REFERENCE: 21829/71  
 ; CURRENT APPLICATION NUMBER: US/09/835,684  
 ; PRIOR FILING DATE: 2001-04-16  
 ; PRIOR APPLICATION NUMBER: 60/198,359  
 ; NUMBER OF SEQ ID NOS: 12  
 ; SOFTWARE: Patent Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-09-835-684-3

Query Match 100.0%; Score 2079; DB 9; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1,2e-156;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSNTSGIGASTWQISIGAGANNGLGTSRQNAIGGNSALGIGGQNDVTNQLAGLL 60

DB 1 MSNTSGIGASTWQISIGAGANNGLGTSRQNAIGGNSALGIGGQNDVTNQLAGLL 60  
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 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSPMQQLKMFSEIMOSLFGDGQDGT 180  
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 DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAMAKEI 300  
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 DB 301 GQFMDQYPEVFGKPYQKGPQEVKTDKSWAKALSFPDDGMPASMEQFNKAKGMIKR 360  
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 DB 361 PMAGDTGNGNLQARAGAGSSSLGIDAMAGDAINNMALGKLGA 403

## RESULT 3

US-09-880-371-3  
 ; Sequence 3, Application US/09880371  
 ; Patent No. US20020059658A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Dekocher, Jay  
 ; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
 ; TITLE OF INVENTION: PLANTS  
 ; FILE REFERENCE: 21829/91  
 ; CURRENT APPLICATION NUMBER: US/09/880,371  
 ; PRIOR FILING DATE: 2001-06-13  
 ; PRIOR APPLICATION NUMBER: 60/211,585  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: Patent Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-09-880-371-3

Query Match 100.0%; Score 2079; DB 9; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1,2e-156;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSPMQQLKMFSEIMOSLFGDGQDGT 180  
 QY 181 QGSSSGGKQPTREGONAYKKVTDALSLMGNGLSQLLGNGLGGGQGNAGTGLDSSSL 240  
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 DB 241 GKGGLQNLGSPVDYQQLGNNAVGTGIGMKAGIQALNDIGTRHHSSTRSFVNKGDRAMAKEI 300

Qy 301 GQFMDOYPEVFGKPOYKQPGQEVKTTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
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Qy 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403  
Db 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 4  
US-09-879-248-3  
; Sequence 3, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-879-248-3

Query Match 100.0%; Score 2079; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1,2e-156;  
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSINTSGLGASTWQISIGAGGNNGLGTSRONAGLGNLSALGCGGNQNDTVNQLAGLL 60  
Db 1 MSINTSGLGASTWQISIGAGGNNGLGTSRONAGLGNLSALGCGGNQNDTVNQLAGLL 60  
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Db 121 TTSTTNSPLDQALGINSTQNDSTSGTDSSTSDSDPMQOLLKMFSEIMOSLFEDGQDGT 180  
Qy 181 QGSSSGKOPTGEBQNAKKGVTDALSLGMNGLSOLLGNGLGGGQGNAGTGLDSSSL 240  
Db 181 QGSSSGKOPTGEBQNAKKGVTDALSLGMNGLSOLLGNGLGGGQGNAGTGLDSSSL 240  
Qy 241 GKGGLQNLSPVVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300  
Db 241 GKGGLQNLSPVVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300  
Qy 301 GQFMDOYPEVFGKPOYKQPGQEVKTTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
Db 301 GQFMDOYPEVFGKPOYKQPGQEVKTTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
Qy 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403  
Db 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 5  
US-09-770-693-3  
; Sequence 3, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; APPLICANT: Bauer, David W.  
; TITLE OF INVENTION: COMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF

; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770,693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-770-693-3

Query Match 100.0%; Score 2079; DB 9; Length 403;  
Best Local Similarity 100.0%; Pred. No. 1,2e-156;  
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSSLNTLGSKGGNN 120  
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Qy 181 QGSSSGKOPTGEBQNAKKGVTDALSLGMNGLSOLLGNGLGGGQGNAGTGLDSSSL 240  
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Qy 241 GKGGLQNLSPVVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300  
Db 241 GKGGLQNLSPVVDYQQLGNVGTGIGMKAGIQALNDIGTRHSSSTRSFVNKGDRAMAKEY 300  
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Db 301 GQFMDOYPEVFGKPOYKQPGQEVKTTDDKSWAKALSKPDDGMPASMEQFNKAKGMIKR 360  
Qy 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403  
Db 361 PMAGDTGNGNLQARGAGGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 6  
US-09-766-348-3  
; Sequence 3, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dwen  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; CURRENT FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 403  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-766-348-3

Query Match 100.0%; Score 2079; DB 9; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-156;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSINTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGSNSALGIGGQNDTVNQLAGLL 60  
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QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLSGSGGIGBEGLSNALNDMLGSLNTTIGSKGNN 120  
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QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180

QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180

US-10-034-158-3  
 RESULT 7  
 ; Sequence 3, Application US/10034158  
 ; Publication No. US20030028918A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS  
 ; FILE REFERENCE: 21829/230  
 ; CURRENT APPLICATION NUMBER: US/10/034,158  
 ; CURRENT FILING DATE: 2001-12-20  
 ; PRIOR APPLICATION NUMBER: 09/597,840  
 ; PRIOR FILING DATE: 2000-06-20  
 ; PRIOR APPLICATION NUMBER: 09/013,587  
 ; PRIOR FILING DATE: 1998-01-26  
 ; PRIOR APPLICATION NUMBER: 60/036,048  
 ; PRIOR FILING DATE: 1997-01-27  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-10-034-158-3

Query Match 100.0%; Score 2079; DB 14; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-156;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 181 QGSSSGGKOPTBEGONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDGSLL 240  
 DB 181 QGSSSGGKOPTBEGONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDGSLL 240

QY 241 GGGKQLNLSGPVYQQLGNAVGTGIGMKAGIQALNDIGTRHSHSTRSFVNKGRAMAKEI 300  
 DB 241 GGGKQLNLSGPVYQQLGNAVGTGIGMKAGIQALNDIGTRHSHSTRSFVNKGRAMAKEI 300

QY 301 GQFMDQYPEVFGKPYQKQPGQEVKTDDKSWAKALSKPDDGDMTPASMEQFNKAKMIKR 360  
 DB 301 GQFMDQYPEVFGKPYQKQPGQEVKTDDKSWAKALSKPDDGDMTPASMEQFNKAKMIKR 360

QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGAA 403  
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGAA 403

RESULT 8  
 ; Sequence 3, Application US/10010390  
 ; Publication No. US20030104979A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Leon, Ernesto  
 ; APPLICANT: Oviedo, Agustín  
 ; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
 ; FILE REFERENCE: 21829/111  
 ; CURRENT APPLICATION NUMBER: US/10/010,390  
 ; CURRENT FILING DATE: 2001-11-05  
 ; PRIOR APPLICATION NUMBER: 60/248,169  
 ; PRIOR FILING DATE: 2000-11-13  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-10-010-390-3

Query Match 100.0%; Score 2079; DB 14; Length 403;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-156;  
 Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSINTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGSNSALGIGGQNDTVNQLAGLL 60  
 DB 1 MSINTSGLGASTWQISIGAGAGNNGLIGTSRONAGLGSNSALGIGGQNDTVNQLAGLL 60

QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLSGSGGIGBEGLSNALNDMLGSLNTTIGSKGNN 120  
 DB 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLSGSGGIGBEGLSNALNDMLGSLNTTIGSKGNN 120

QY 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLSGSGGIGBEGLSNALNDMLGSLNTTIGSKGNN 120  
 DB 61 TGMNMMMSMMGGGGLMGGLGGGLGNGLSGSGGIGBEGLSNALNDMLGSLNTTIGSKGNN 120

QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180

QY 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180  
 DB 121 TTSTTNSPLDQALGINSTSONDSTSGTSDSDSPMQLLKMFSIMOSLFGDGODGT 180

QY 181 QGSSSGGKOPTBEGONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDGSLL 240  
 DB 181 QGSSSGGKOPTBEGONAYKKGVTDALSGLMNGLSQLLGNGLGGGQGNAGTGLDGSLL 240

QY 241 GGGKQLNLSGPVYQQLGNAVGTGIGMKAGIQALNDIGTRHSHSTRSFVNKGRAMAKEI 300  
 DB 241 GGGKQLNLSGPVYQQLGNAVGTGIGMKAGIQALNDIGTRHSHSTRSFVNKGRAMAKEI 300

QY 301 GQFMDQYPEVFGKPYQKQPGQEVKTDDKSWAKALSKPDDGDMTPASMEQFNKAKMIKR 360  
 DB 301 GQFMDQYPEVFGKPYQKQPGQEVKTDDKSWAKALSKPDDGDMTPASMEQFNKAKMIKR 360

QY 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGAA 403  
 DB 361 PMAGDTGNGNLQARGAGSSSLGIDAMMAGDAINNMALGKLGAA 403

Query Match	100.0%;	Score 2079;	DB 14;	Length 403;
Best Local Similarity	100.0%;	Pred. No. 1.2e-156;		
Matches 403; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0

RESULT 10  
US-10-441-736-3  
Sequence 3, Application US/10441736  
Publication No. US20040016029A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Schading, Richard L.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
TITLE OF INVENTION: RESISTANCE  
FILE REFERENCE: 21829/203 (EBC-003)  
CURRENT APPLICATION NUMBER: US/10/441,736  
CURRENT FILING DATE: 2003-05-20  
PRIOR APPLICATION NUMBER: 60/107,243  
PRIOR FILING DATE: 1998-11-05  
PRIOR APPLICATION NUMBER: 09/431,614

Query Match	100.0%;	Score 2079;	DB 15;	Length 403;
Best Local Similarity	100.0%;	Pred. No. 1.2e-156;		
Matches 403; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

RESULT 11  
US-09-086-118-21

Sequence 21, Application US/09086118  
Patent No. US20010011380A1  
GENERAL INFORMATION:  
APPLICANT: Laby, Ronald J.  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENT ELICITING A HYPERSENSITIVE RESPONSE AND USE  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/048,109  
FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/1301  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 338 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-086-118-21

Query Match 34.6%; Score 718.5; DB 9; Length 338;  
 Best Local Similarity 42.8%; Pred. No. 8.1e-49;  
 Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MOISI-GGAGGNNGLGTSRQNAAGLGG-NSA---LGGGQNDVTNQLAGLLTGMMMM 67  
 DB 1 MOTTIKAHIGDGLVSGLGAQ--GLKGLNSAASSLVKLSSTIDKLTSLTSMN--- 55  
 QY 68 SMWGGGLMGGLGGGLGGLGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127  
 DB 56 -----FGALAGLGAAS-SKGLGMSNQLGGSFGN-----GAQASNLISVPK- 96  
 QY 128 PLDQALGINSTQNDSTSGTSDTSSDSPMQQLKMFSEIMOSLFG-----DGODG 179  
 DB 97 -----SGGDALS-----KMFDAKLDLLGHDTVTKLTNOSNQ 128  
 QY 180 TQSSSGGKOPTGEQNAKKYKVTDALSGLMGNGLSQLLGGGLGGGQGNAGTGLDGS 239  
 DB 129 LANSMLASQMTQGNMNAFGSGVNNALSLILGNGLGQSM-----SGFSQPS 174  
 QY 240 LGGKGLNTLSPVYQOLGNAVGTGIGMKAGIQALNDIGTHRHSTRSFVNKGDRAVAK 299  
 DB 175 LGAGGLGGLGAGAFNQLGNALIGMGVQNALSLNSVSTHVDGNNRHFDKEDRGVAK 234  
 QY 300 IGGFMDQYPEVFGKPYQKPGQEVKTDKSMAKALSKPDDDMTPASMEQFNKAKGMK 359  
 DB 235 IGGFMDQYPEIFGKPEYQKDGWSSPKTDDKSMAYALSKPDDDMTGASMDKFRQAMGMK 294  
 QY 360 RPAAGDTGNGNLQARGGSSSLGIDAMMAGDALNNMALGKLGAA 403  
 DB 295 SAVAGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGKLANA 338

## RESULT 12

US-09-835-684-1

; Sequence 1, Application US/09835684  
 ; Patent No. US20020019337A1

GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min

APPLICANT: Qiu, Deyen

APPLICANT: Remick, Dean

TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE

TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR

FILE REFERENCE: 21829/71

CURRENT APPLICATION NUMBER: US/09/835,684

PRIOR FILING DATE: 2001-04-16

PRIOR APPLICATION NUMBER: 60/198,359

NUMBER OF SEQ ID NOS: 12

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1

LENGTH: 338

TYPE: PRT

ORGANISM: Erwinia chrysanthemi

US-09-835-684-1

Query Match 34.6%; Score 718.5; DB 9; Length 338;  
 Best Local Similarity 42.8%; Pred. No. 8.1e-49;  
 Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MOISI-GGAGGNNGLGTSRQNAAGLGG-NSA---LGGGQNDVTNQLAGLLTGMMMM 67  
 DB 1 MOTTIKAHIGDGLVSGLGAQ--GLKGLNSAASSLVKLSSTIDKLTSLTSMN--- 55  
 QY 68 SMWGGGLMGGLGGGLGGLGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127  
 DB 56 -----FGALAGLGAAS-SKGLGMSNQLGGSFGN-----GAQASNLISVPK- 96  
 QY 128 PLDQALGINSTQNDSTSGTSDTSSDSPMQQLKMFSEIMOSLFG-----DGODG 179  
 DB 97 -----SGGDALS-----KMFDAKLDLLGHDTVTKLTNOSNQ 128  
 QY 180 TQSSSGGKOPTGEQNAKKYKVTDALSGLMGNGLSQLLGGGLGGGQGNAGTGLDGS 239  
 DB 129 LANSMLASQMTQGNMNAFGSGVNNALSLILGNGLGQSM-----SGFSQPS 174  
 QY 240 LGGKGLNTLSPVYQOLGNAVGTGIGMKAGIQALNDIGTHRHSTRSFVNKGDRAVAK 299  
 DB 175 LGAGGLGGLGAGAFNQLGNALIGMGVQNALSLNSVSTHVDGNNRHFDKEDRGVAK 234  
 QY 300 IGGFMDQYPEVFGKPYQKPGQEVKTDKSMAKALSKPDDDMTPASMEQFNKAKGMK 359  
 DB 235 IGGFMDQYPEIFGKPEYQKDGWSSPKTDDKSMAYALSKPDDDMTGASMDKFRQAMGMK 294  
 QY 360 RPAAGDTGNGNLQARGGSSSLGIDAMMAGDALNNMALGKLGAA 403  
 DB 295 SAVAGDTGNTNLNRGAGGASLGIDAAVVGDKIANMSLGKLANA 338

## RESULT 13

US-09-880-371-1

; Sequence 1, Application US/09880371  
 ; Patent No. US20020059658A1

GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min

APPLICANT: Debocher, Jay

TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC

FILE REFERENCE: 21829/91

CURRENT APPLICATION NUMBER: US/09/880,371

PRIOR FILING DATE: 2001-06-13

PRIOR APPLICATION NUMBER: 60/211,585

NUMBER OF SEQ ID NOS: 16

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1

LENGTH: 338

TYPE: PRT

ORGANISM: Erwinia chrysanthemi

US-09-880-371-1

Query Match 34.6%; Score 718.5; DB 9; Length 338;  
 Best Local Similarity 42.8%; Pred. No. 8.1e-49;  
 Matches 173; Conservative 41; Mismatches 11; Indels 79; Gaps 11;

QY 13 MOISI-GGAGGNNGLGTSRQNAAGLGG-NSA---LGGGQNDVTNQLAGLLTGMMMM 67  
 DB 1 MOTTIKAHIGDGLVSGLGAQ--GLKGLNSAASSLVKLSSTIDKLTSLTSMN--- 55  
 QY 68 SMWGGGLMGGLGGGLGGLGSGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTNS 127  
 DB 56 -----FGALAGLGAAS-SKGLGMSNQLGGSFGN-----GAQASNLISVPK- 96  
 QY 128 PLDQALGINSTQNDSTSGTSDTSSDSPMQQLKMFSEIMOSLFG-----DGODG 179  
 DB 97 -----SGGDALS-----KMFDAKLDLLGHDTVTKLTNOSNQ 128  
 QY 180 TQSSSGGKOPTGEQNAKKYKVTDALSGLMGNGLSQLLGGGLGGGQGNAGTGLDGS 239



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RESULT 14
US-09-879-248-1
: Sequence 1, Application US/09879248
: Patent No. US20020062500A1
: GENERAL INFORMATION:
: APPLICANT: Fan, Hao
: APPLICANT: Wei, Zhong-Min
: TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE
: TITLE OF INVENTION: THEREOF
: FILE REFERENCE: 21829/81
: CURRENT APPLICATION NUMBER: US/09/879,248
: CURRENT FILING DATE: 2001-06-12
: PRIOR APPLICATION NUMBER: 60/212,211
: PRIOR FILING DATE: 2000-06-16
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 1
: LENGTH: 338
: TYPE: PRT
: ORGANISM: Erwinia chrysanthemi
: US-09-879-248-1

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RESULT 15  
US-09-770-693-1  
; Sequence 1, Application US/09770693

[illegible]

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 21.5694 Seconds  
(without alignments)  
1169.775 Million cell updates/sec

Title: US-09-597-840-1

Perfect score: 1704  
Sequence: 1 MQTTIRAHIGGDLGVSGLG.....DAAVGDKIANMSLGKLANA 338

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

## Database :

Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A.COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B.COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A.COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B.COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PTUS.COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	* Query Match	Length	DB ID	Description
1	1704	100.0	338	1	US-08-891-254-1 Sequence 1, Appli
2	1704	100.0	338	2	US-08-484-358-2 Sequence 2, Appli
3	1704	100.0	338	2	US-08-819-539-1 Sequence 1, Appli
4	1704	100.0	338	2	US-09-030-270A-1 Sequence 1, Appli
5	1704	100.0	338	3	US-09-118-959-2 Sequence 2, Appli
6	1704	100.0	338	3	US-08-984-207-1 Sequence 1, Appli
7	1704	100.0	338	3	US-09-013-587-1 Sequence 1, Appli
8	1704	100.0	338	4	US-09-086-118-21 Sequence 2, Appli
9	1704	100.0	338	5	US-09-431-614-1 Sequence 1, Appli
10	1704	100.0	338	5	PCT-US96-08819-1 Sequence 1, Appli
11	1718.5	42.2	403	2	US-08-200-724A-2 Sequence 2, Appli
12	1718.5	42.2	403	2	US-09-030-270A-3 Sequence 3, Appli
13	1718.5	42.2	403	3	US-08-851-376A-2 Sequence 2, Appli
14	1718.5	42.2	403	3	US-08-984-207-3 Sequence 3, Appli
15	1718.5	42.2	403	3	US-09-013-587-3 Sequence 3, Appli
16	1718.5	42.2	403	4	US-09-086-118-23 Sequence 2, Appli
17	1718.5	42.2	403	4	US-09-431-614-3 Sequence 3, Appli
18	1718.5	42.2	403	5	PCT-US93-06243-2 Sequence 3, Appli
19	617.5	36.2	385	1	US-08-891-254-3 Sequence 3, Appli
20	617.5	36.2	385	1	US-08-819-539-3 Sequence 3, Appli
21	617.5	36.2	385	5	PCT-US96-08819-3 Sequence 3, Appli
22	147.5	8.7	479	3	US-09-177-349-3 Sequence 3, Appli
23	147.5	8.7	479	3	US-09-918-951-3 Sequence 3, Appli
24	139.5	8.2	508	4	US-09-270-767-46233 Sequence 46233, A
25	139.5	8.2	2504	4	US-09-328-352-5821 Sequence 5821, Ap
26	138.5	8.1	341	1	US-08-062-024B-5 Sequence 5, Appli
27	138.5	8.1	341	1	US-08-891-254-5 Sequence 5, Appli

## ALIGNMENTS

28	138.5	8.1	341	2	US-08-756-407-5	Sequence 5, Appli
29	138.5	8.1	341	2	US-08-819-539-5	Sequence 5, Appli
30	138.5	8.1	341	2	US-09-030-270A-5	Sequence 5, Appli
31	138.5	8.1	341	3	US-08-984-207-5	Sequence 5, Appli
32	138.5	8.1	341	3	US-09-013-587-5	Sequence 5, Appli
33	138.5	8.1	341	4	US-09-086-118-25	Sequence 25, Appli
34	138.5	8.1	341	4	US-09-431-614-11	Sequence 11, Appli
35	138.5	8.1	341	5	PCT-US94-05014-5	Sequence 5, Appli
36	138.5	8.1	341	5	PCT-US96-08819-5	Sequence 5, Appli
37	134.5	7.9	1415	4	US-09-252-991A-26438	Sequence 26438, A
38	133.5	7.8	674	1	US-08-317-522A-3	Sequence 3, Appli
39	133.5	7.8	674	1	US-08-439-818A-3	Sequence 3, Appli
40	133.5	7.8	674	2	US-08-751-965-3	Sequence 3, Appli
41	133.5	7.8	674	2	US-08-738-975-3	Sequence 3, Appli
42	133.5	7.8	674	2	US-08-728-626-3	Sequence 3, Appli
43	133.5	7.8	674	3	US-08-808-599A-3	Sequence 3, Appli
44	133	7.8	975	4	US-09-328-352-5764	Sequence 4764, Ap
45	131	7.7	749	1	US-08-317-522A-2	Sequence 2, Appli

RESULT 1  
US-08-891-254-1  
Sequence 1, Application US/08891254  
Patent No. 576689  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
NUMBER OF INVENTION: Induced Resistance In Plants  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,254  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475, 775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-1  
Query Match 100.0%; Score 1704; DB 1; Length 338;  
Best Local Similarity 100.0%; Pred. No. 4.6e-147;  
Matches 338; Conservative 0; Mismatches 0; Gaps 0;  
OY 1 MQTTIRAHIGGDLGVSGLGKLANSAASISGVSVKSLTDKLTSLATSMFPGAL 60

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Db      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASSLGSSVDKLSSTIDKLTSLTSMFPGAL 60
QY      61 AAGIGASSKGLGNSNOLGSGFNGAGAGASNLISVPKSGGDAISKMPDKALDDLGHDTVT 120
Db      61 AAGIGASSKGLGNSNOLGSGFNGAGAGASNLISVPKSGGDAISKMPDKALDDLGHDTVT 120
QY      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
Db      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
QY      181 QGSLGAGAFNOLGNAIGVGONALALSNSVTHVDGNRRHFVDKEDRGMAKEIGQFMD 240
Db      181 QGSLGAGAFNOLGNAIGVGONALALSNSVTHVDGNRRHFVDKEDRGMAKEIGQFMD 240
QY      241 QYPEIFGKPEYQKDGSSPKTDDKSMKALSKPDDCGMTASMDKFRQAMGMIKSAVAGD 300
Db      241 QYPEIFGKPEYQKDGSSPKTDDKSMKALSKPDDCGMTASMDKFRQAMGMIKSAVAGD 300
QY      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338
Db      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338

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## RESULT 2

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US-08-484-358-2
/ Sequence 2, Application US/08484358
/ Patent No. 5850015
/ GENERAL INFORMATION:
/ APPLICANT: Bauer, David
/ APPLICANT: Colimer, Alan
/ TITLE OF INVENTION: Hypersensitive Response Elicitor
/ TITLE OF INVENTION: From
/ NUMBER OF INVENTION: Ewinia Chrysanthemi
/ NUMBER OF SEQUENCES: 6
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle
/ STREET: Clinton Square
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/484,358
/ FILING DATE:
/ CLASSIFICATION: 800
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 19603/840
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 716-263-1304
/ TELEFAX: 716-263-1600
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 338 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-484-358-2

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Query Match      100.0%; Score 1704; DB 2; Length 338;
Best Local Similarity 100.0%; Pred. No. 4,6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASSLGSSVDKLSSTIDKLTSLTSMFPGAL 60

```

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Db      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASSLGSSVDKLSSTIDKLTSLTSMFPGAL 60
QY      61 AAGIGASSKGLGNSNOLGSGFNGAGAGASNLISVPKSGGDAISKMPDKALDDLGHDTVT 120
Db      61 AAGIGASSKGLGNSNOLGSGFNGAGAGASNLISVPKSGGDAISKMPDKALDDLGHDTVT 120
QY      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
Db      121 KLTNQSQNLNSMLNASQMTQGNMNAFGSGVNNALSSILNGIGQSGMSGFSQPSLGAGL 180
QY      181 QGSLGAGAFNOLGNAIGVGONALALSNSVTHVDGNRRHFVDKEDRGMAKEIGQFMD 240
Db      181 QGSLGAGAFNOLGNAIGVGONALALSNSVTHVDGNRRHFVDKEDRGMAKEIGQFMD 240
QY      241 QYPEIFGKPEYQKDGSSPKTDDKSMKALSKPDDCGMTASMDKFRQAMGMIKSAVAGD 300
Db      241 QYPEIFGKPEYQKDGSSPKTDDKSMKALSKPDDCGMTASMDKFRQAMGMIKSAVAGD 300
QY      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338
Db      301 TGNNTNLRGAGASLGIDAAVVGDKTIANMSLGKLANA 338

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## RESULT 3

```

US-08-819-539-1
/ Sequence 1, Application US/08819539
/ Patent No. 5859324
/ GENERAL INFORMATION:
/ APPLICANT: Wei, Zhong-Min
/ APPLICANT: Beer, Steven V.
/ TITLE OF INVENTION: Hypersensitive Response
/ TITLE OF INVENTION: Induced Resistance In Plants
/ NUMBER OF SEQUENCES: 9
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Nixon, Hargrave, Devans & Doyle
/ STREET: Clinton Square, P.O. Box 1051
/ CITY: Rochester
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 14603
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent in Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/819,539
/ FILING DATE: 17-MAR-1997
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/475,775
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Goldman, Michael L.
/ REGISTRATION NUMBER: 30,727
/ REFERENCE/DOCKET NUMBER: 14603/10050
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (716) 263-1304
/ TELEFAX: (716) 263-1600
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 338 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-819-539-1

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Query Match      100.0%; Score 1704; DB 2; Length 338;
Best Local Similarity 100.0%; Pred. No. 4,6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 MOTTIKAHIGDGLVSGIGAGLKGKLNLSAASSLGSSVDKLSSTIDKLTSLTSMFPGAL 60

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Db 1 MOTTIKAHIGDGLVSGAGAGLKGINSASSLSSVDKLSSTIDKLTSLTSMFGAL 60
Qy 61 AAGLGAASSKGLGMSNOQGSFNGAOGASNLSPKSGDALSKMFDALDDLGHDTVT 120
Db 61 AAGLGAASSKGLGMSNOQGSFNGAOGASNLSPKSGDALSKMFDALDDLGHDTVT 120
Qy 121 KLTNQSOLANSMTLNASQMTQGNNAFGSGVNNALSLILNGLQGSMSGFSPSLGAGL 180
Db 121 KLTNQSOLANSMTLNASQMTQGNNAFGSGVNNALSLILNGLQGSMSGFSPSLGAGL 180
Qy 181 QGLSGAGAFNOLGNAIGVGONALSLSVSTHVDGNRRHFVDKEDRGAKXIGQFMD 240
Db 181 QGLSGAGAFNOLGNAIGVGONALSLSVSTHVDGNRRHFVDKEDRGAKXIGQFMD 240
Qy 241 QYPEIFGKPEYQXKGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db 241 QYPEIFGKPEYQXKGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNTNLNRGAGASLIGIDAAVGDKTANNMGLKLANA 338
Db 301 TGNTNLNRGAGASLIGIDAAVGDKTANNMGLKLANA 338
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RESULT 4  
US-09-030-270A-1

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; Sequence 1, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devane & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-030-270A-1
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Query Match 100.0%; Score 1704; DB 2; Length 338;  
Best Local Similarity 100.0%; Pred. No. 4.6e-147;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MOTTIKAHIGDGLVSGAGAGLKGINSASSLSSVDKLSSTIDKLTSLTSMFGAL 60
Db 1 MOTTIKAHIGDGLVSGAGAGLKGINSASSLSSVDKLSSTIDKLTSLTSMFGAL 60
Qy 61 AAGLGAASSKGLGMSNOQGSFNGAOGASNLSPKSGDALSKMFDALDDLGHDTVT 120
Db 61 AAGLGAASSKGLGMSNOQGSFNGAOGASNLSPKSGDALSKMFDALDDLGHDTVT 120
Qy 121 KLTNQSOLANSMTLNASQMTQGNNAFGSGVNNALSLILNGLQGSMSGFSPSLGAGL 180
Db 121 KLTNQSOLANSMTLNASQMTQGNNAFGSGVNNALSLILNGLQGSMSGFSPSLGAGL 180
Qy 181 QGLSGAGAFNOLGNAIGVGONALSLSVSTHVDGNRRHFVDKEDRGAKXIGQFMD 240
Db 181 QGLSGAGAFNOLGNAIGVGONALSLSVSTHVDGNRRHFVDKEDRGAKXIGQFMD 240
Qy 241 QYPEIFGKPEYQXKGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db 241 QYPEIFGKPEYQXKGWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300
Qy 301 TGNTNLNRGAGASLIGIDAAVGDKTANNMGLKLANA 338
Db 301 TGNTNLNRGAGASLIGIDAAVGDKTANNMGLKLANA 338
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RESULT 5  
US-09-118-959-2

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; Sequence 2, Application US/09118959
; Patent No. 6001959
; GENERAL INFORMATION:
; APPLICANT: Bauer, David
; APPLICANT: Collier, Alan
; TITLE OF INVENTION: Hypersensitive Response Elicitor From
; TITLE OF INVENTION: Erwinia Chrysanthemi
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devane & Doyle
; STREET: Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/118,959
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/840
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 716-263-1304
; TELEFAX: 716-263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-118-959-2
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Query Match 100.0%; Score 1704; DB 3; Length 338;  
Best Local Similarity 100.0%; Pred. No. 4.6e-147;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MORTIKAHIGDGLGVSGIGAQGLKGLNSAASLGSSVVDKLSSTIDKLSALTSMFEGAL 60  
 Qy 61 AAGIGASSKGLGMSNOIGQSFNGAQAQASNLISVPSKGGDALSKMPKALDDLGHDTVT 120  
 Db 61 AAGIGASSKGLGMSNOIGQSFNGAQAQASNLISVPSKGGDALSKMPKALDDLGHDTVT 120  
 Qy 121 KLTNQSQNLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGSGFSPSLGAGL 180  
 Db 121 KLTNQSQNLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGSGFSPSLGAGL 180  
 Qy 181 QGSGAGAFNQLGVALIGVGQNALSLSNVSTHVDGNRRHFVDEKDRGMAKEIQGFM 240  
 Db 181 QGSGAGAFNQLGVALIGVGQNALSLSNVSTHVDGNRRHFVDEKDRGMAKEIQGFM 240  
 Qy 241 QYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIKSAVAG 300  
 Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIKSAVAG 300  
 Qy 301 TGNNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338  
 Db 301 TGNNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338

## RESULT 6

US-08-984-207-1  
 ; Sequence 1, Application US/08984207  
 ; Patent No. 6235974

## GENERAL INFORMATION:

APPLICANT: Qiu, Dwen  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Beer, Steven V.  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
 TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
 STREET: P.O. Box 1051, Clinton Square  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/984,207  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/033,230  
 FILING DATE: 05-DEC-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/1201  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 338 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-984-207-1

Query Match 100.0%; Score 1704; DB 3; Length 338;  
 Best Local Similarity 100.0%; Pred. No. 4,6e-147;  
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MORTIKAHIGDGLGVSGIGAQGLKGLNSAASLGSSVVDKLSSTIDKLSALTSMFEGAL 60  
 Db 1 MORTIKAHIGDGLGVSGIGAQGLKGLNSAASLGSSVVDKLSSTIDKLSALTSMFEGAL 60  
 Qy 61 AAGIGASSKGLGMSNOIGQSFNGAQAQASNLISVPSKGGDALSKMPKALDDLGHDTVT 120  
 Db 61 AAGIGASSKGLGMSNOIGQSFNGAQAQASNLISVPSKGGDALSKMPKALDDLGHDTVT 120  
 Qy 121 KLTNQSQNLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGSGFSPSLGAGL 180  
 Db 121 KLTNQSQNLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGSGFSPSLGAGL 180  
 Qy 181 QGSGAGAFNQLGVALIGVGQNALSLSNVSTHVDGNRRHFVDEKDRGMAKEIQGFM 240  
 Db 181 QGSGAGAFNQLGVALIGVGQNALSLSNVSTHVDGNRRHFVDEKDRGMAKEIQGFM 240  
 Qy 241 QYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIKSAVAG 300  
 Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIKSAVAG 300  
 Qy 301 TGNNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338  
 Db 301 TGNNTNLNRGAGASLGIDAAVGDKIANNSLGKLANA 338

## RESULT 7

US-09-013-587-1  
 ; Sequence 1, Application US/09013587  
 ; Patent No. 6277814

## GENERAL INFORMATION:

APPLICANT: Qiu, Dwen  
 APPLICANT: Wei, Zhong-Min  
 APPLICANT: Beer, Steven V.  
 TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
 STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 14603  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/013,587  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/036,048  
 FILING DATE: 27-JAN-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30,727  
 REFERENCE/DOCKET NUMBER: 19603/1501  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304  
 TELEFAX: (716) 263-1600  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 338 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-013-587-1

Query Match 100.0%; Score 1704; DB 3; Length 338;  
 Best Local Similarity 100.0%; Pred. No. 4,6e-147;  
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MOTTIKAHIGGDLGVSGIAGAGLKGINSAASSLGSSVVDKLSSTTDKLTSLTSMFFGAL 60
Db 1 MOTTIKAHIGGDLGVSGIAGAGLKGINSAASSLGSSVVDKLSSTTDKLTSLTSMFFGAL 60
QY 61 AAGLGASSKGIAGMSNOIQSGFNGAGAGASNLISVPSKSGDALSKMFDKALDDLLGHDTVT 120
Db 61 AAGLGASSKGIAGMSNOIQSGFNGAGAGASNLISVPSKSGDALSKMFDKALDDLLGHDTVT 120
QY 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
Db 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
QY 181 QGLSGAGAFNOLGNAIGMVGQGNALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Db 181 QGLSGAGAFNOLGNAIGMVGQGNALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNLNRGAGASLGIDAAVVDGKIANMSLGKLANA 338
Db 301 TGNNTNLNRGAGASLGIDAAVVDGKIANMSLGKLANA 338

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# RESULT 8

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US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Laby, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; TITLE OF INVENTION: FRAGMENT ELICITING A HYPERSENSITIVE RESPONSE AND USES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-21

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Query Match 100.0%; Score 1704; DB 4; Length 338;
Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MOTTIKAHIGGDLGVSGIAGAGLKGINSAASSLGSSVVDKLSSTTDKLTSLTSMFFGAL 60
Db 1 MOTTIKAHIGGDLGVSGIAGAGLKGINSAASSLGSSVVDKLSSTTDKLTSLTSMFFGAL 60
QY 61 AAGLGASSKGIAGMSNOIQSGFNGAGAGASNLISVPSKSGDALSKMFDKALDDLLGHDTVT 120
Db 61 AAGLGASSKGIAGMSNOIQSGFNGAGAGASNLISVPSKSGDALSKMFDKALDDLLGHDTVT 120
QY 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
Db 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
QY 181 QGLSGAGAFNOLGNAIGMVGQGNALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Db 181 QGLSGAGAFNOLGNAIGMVGQGNALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300
Db 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300
QY 301 TGNNTNLNRGAGASLGIDAAVVDGKIANMSLGKLANA 338
Db 301 TGNNTNLNRGAGASLGIDAAVVDGKIANMSLGKLANA 338

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# RESULT 9

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US-09-431-614-1
; Sequence 1, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Schading, Richard L.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (ERC-003)
; CURRENT APPLICATION NUMBER: US/09/431,614
; EARLIER FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Erwinia chrysanthemi
; US-09-431-614-1

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Query Match 100.0%; Score 1704; DB 4; Length 338;
Best Local Similarity 100.0%; Pred. No. 4.6e-147;
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MOTTIKAHIGGDLGVSGIAGAGLKGINSAASSLGSSVVDKLSSTTDKLTSLTSMFFGAL 60
Db 1 MOTTIKAHIGGDLGVSGIAGAGLKGINSAASSLGSSVVDKLSSTTDKLTSLTSMFFGAL 60
QY 61 AAGLGASSKGIAGMSNOIQSGFNGAGAGASNLISVPSKSGDALSKMFDKALDDLLGHDTVT 120
Db 61 AAGLGASSKGIAGMSNOIQSGFNGAGAGASNLISVPSKSGDALSKMFDKALDDLLGHDTVT 120
QY 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
Db 121 KLTNOSNOLANSMLNASQMTQGNMNAFGSGVNNALSSILNGLGQSGMSGFSQPSLGAGL 180
QY 181 QGLSGAGAFNOLGNAIGMVGQGNALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
Db 181 QGLSGAGAFNOLGNAIGMVGQGNALSLSNVSTHVDGNRRHFDKEDRGMAKEIGQFMD 240
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGWTGASMDKFRQAMGMIKSAVAGD 300

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Db 241 QYPEIFGKPEYQKDWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300  
QY 301 TGNNTNLRGAGASLGIDAAVGDKIANNSLGLANA 338  
Db 301 TGNNTNLRGAGASLGIDAAVGDKIANNSLGLANA 338

## RESULT 10

PCT-US96-08819-1  
Sequence 1, Application PC/TUS9608819  
GENERAL INFORMATION:  
APPLICANT: Cornell Research Foundation, Inc.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08819  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/475,775  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-08819-1

Query Match 100.0%; Score 1704; DB 5; Length 338;  
Best Local Similarity 100.0%; Pred. No. 4.6e-147;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MQITIKAHIGDGLVSGIAGQGLKGLNSAASSLGSSVDKLSSTIDKLTSAITSMFPGAL 60  
Db 1 MQITIKAHIGDGLVSGIAGQGLKGLNSAASSLGSSVDKLSSTIDKLTSAITSMFPGAL 60  
QY 61 AAGGAGSSKGLGMSNOGQSGFNGAQAQASNTLSVPKSGDALSKPFDALDDLGHDTVT 120  
Db 61 AAGGAGSSKGLGMSNOGQSGFNGAQAQASNTLSVPKSGDALSKPFDALDDLGHDTVT 120  
QY 121 KLITQSNQNLANSMLNASQMTQGNMNAFGSGVNNALSLILNGLGQSGMSGFSQPSIAGAGL 180  
Db 121 KLITQSNQNLANSMLNASQMTQGNMNAFGSGVNNALSLILNGLGQSGMSGFSQPSIAGAGL 180  
QY 181 QGSLGAGAFNOLGNAIGMGVQNALSLSNVSTHVDGNRRHFDVKEDRGNAKEIGQFMD 240  
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QY 241 QYPEIFGKPEYQKDWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300  
Db 241 QYPEIFGKPEYQKDWSSPKTDDKSMKALSKPDDGWTGASMDKFRQAMGMIKSAVAGD 300

QY 301 TGNNTNLRGAGASLGIDAAVGDKIANNSLGLANA 338  
Db 301 TGNNTNLRGAGASLGIDAAVGDKIANNSLGLANA 338

## RESULT 11

US-08-200-724A-2  
Sequence 2, Application US/08200724A  
Patent No. 5849868  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Bauer, David W.  
APPLICANT: Beer, Steven V.  
APPLICANT: Collier, Alan  
APPLICANT: He, Sheng-Yang  
APPLICANT: Laby, Ron J.  
TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
TITLE OF INVENTION: IN PLANTS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/200,724A  
FILING DATE: 23-FEB-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10030  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-200-724A-2

Query Match 42.2%; Score 718.5; DB 2; Length 403;  
Best Local Similarity 42.8%; Pred. No. 3.4e-57;  
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;  
QY 1 MQITIKAHIGDGLVSGIAGQ--GLKGLNSAASSLGSSVDKLSSTIDKLTSAITSMF--- 55  
Db 13 MQISI-GGAGGNNGDLGTSRQNGMLGG-NGA---LGLGGNQNTVQNLGLLGMWMM 67  
QY 56 -----FGALAQGLGAS-SKGLGMSNOGQSGFNG---GAQASNTLSVPK- 96  
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QY 97 -----SGGDALS-----KMFDAALDDLGHDTYTKLTQNSNQ 128  
Db 128 PLDQALGINTSQNDSTSTGTSSTSDSSDPWQQLKMFSEIMOSLFG-----DGQDG 179  
QY 129 LANSMLNASQMTQGNMNAFGSGVNNALSLILNGLGQSGM-----SGFSQPS 174  
Db 180 TQSSSSGKQPTREBQNAKYKGVTDALSGLMGNLSQLLNGLGSGGQGGAGAGTGLDSS 239  
QY 175 LGAGGLQGLGAGAFNOLGNAIGMGVQNALSLSNVSTHVDGNRRHFDVKEDRGNAKE 234



Db 240 LGAGGGLNLSPVYQQLGNVGTGIGMKAGIQALNDIGTHRHSTSSFVAKGDRAMAKE 299  
Qy 235 IGGFMDQPELFEFGKPEYQKDGSSPKTDDKSMAYALSPPDDGTGASMDKFRQAMGMIK 294  
Db 300 IGGFMDQPEVFEFGKPEYQKDGPEVKTDDKSMAYALSPPDDGTGASMDKFRQAMGMIK 359  
Qy 295 SAVAGDTGNTNLNRGAGGASLGIDAAVGDKIANMSLGLANA 338  
Db 360 RPNAGDTGNLQARAGAGSSSLGIDAMMAGDAIINMALGLGLAA 403

RESULT 12  
US-09-030-270A-3  
Sequence 3, Application US/09030270A  
Patent No. 5977060

GENERAL INFORMATION:  
APPLICANT: Zitter, Thomas A.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: INSECT CONTROL WITH A  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/030,270A  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,226  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1521  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-030-270A-3

Query Match 42.2%; Score 718.5; DB 2; Length 403;  
Best Local Similarity 42.8%; Pred. No. 3.4e-57;  
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;  
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RESULT 13  
US-08-851-376A-2  
Sequence 2, Application US/08851376A  
Patent No. 6174717

GENERAL INFORMATION:  
APPLICANT: Beer, Steven V.  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Bauer, David W.  
APPLICANT: Collier, Alan  
APPLICANT: He, Sheng-Yang  
APPLICANT: Laby, Ron  
TITLE OF INVENTION: ELICITOR OF THE HYPERSENSITIVE RESPONSE  
TITLE OF INVENTION: IN PLANTS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon Peabody LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: NY  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,376A  
FILING DATE: 05-MAY-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/200,724  
FILING DATE: 23-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10035  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 403 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-851-376A-2

Query Match 42.2%; Score 718.5; DB 3; Length 403;  
Best Local Similarity 42.8%; Pred. No. 3.4e-57;  
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;  
Qy 1 MOTTIRKAHIGDDLGVSGIAGQ--GLKGLNSAASLSGVSTIDKLTSLTSMN--- 55  
Db 13 MQISI--CGAGGNNLLGTSTRQNNAGLGG--NSA--LGLGGGNQNDTVNQLAGLLTGMNMM 67



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;      TOPOLOGY: linear
;      MOLECULE TYPE: protein
US-09-013-587-3

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Best Local Similarity	42.8%;	Pred. No. 3.4e-57;		
Matches 173;	Conservative 41;	Mismatches 111;	Indels 79;	Gaps 11;

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

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Title: US-09-597-840-1  
Sequence: 1 MQITTAHIGGDLGVSGLA.....DAAVGDKIANMGLKLANA 338

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Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0  
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Maximum Match 100%  
Listing first 45 summaries

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Published Applications AA:\*

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- 19: /cgn2\_6/ptodata/1/pubppaa/US60\_NEW\_PUB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Length	ID	Description
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3	1704	100.0	338 9 US-09-880-371-1	Sequence 1, Appl
4	1704	100.0	338 9 US-09-879-248-1	Sequence 1, Appl
5	1704	100.0	338 9 US-09-770-693-1	Sequence 1, Appl
6	1704	100.0	338 9 US-09-766-348-1	Sequence 1, Appl
7	1704	100.0	338 14 US-10-034-158-1	Sequence 1, Appl
8	1704	100.0	338 14 US-10-010-390-1	Sequence 1, Appl
9	1704	100.0	338 14 US-10-387-806-21	Sequence 21, Appl
10	1704	100.0	338 15 US-10-441-736-1	Sequence 1, Appl
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12	718.5	42.2	403 9 US-09-835-684-3	Sequence 3, Appl
13	718.5	42.2	403 9 US-09-880-371-3	Sequence 3, Appl

14	718.5	42.2	403 9 US-09-879-248-3	Sequence 3, Appl
15	718.5	42.2	403 9 US-09-770-693-3	Sequence 3, Appl
16	718.5	42.2	403 9 US-09-766-348-3	Sequence 3, Appl
17	718.5	42.2	403 14 US-10-034-158-3	Sequence 3, Appl
18	718.5	42.2	403 14 US-10-010-390-3	Sequence 23, Appl
19	718.5	42.2	403 14 US-10-387-806-23	Sequence 3, Appl
20	718.5	42.2	403 15 US-10-441-736-3	Sequence 3, Appl
21	154.5	9.1	979 15 US-10-282-1228-47372	Sequence 47372, A
22	151.5	8.9	979 15 US-10-282-1228-47312	Sequence 49839, A
23	151	8.9	652 15 US-10-282-1228-49839	Sequence 51536, A
24	150.5	8.8	1819 15 US-10-282-1228-51538	Sequence 3, Appl
25	147.5	8.7	479 9 US-09-918-951-3	Sequence 6032, Ap
26	147.5	8.7	585 9 US-09-768-626-6032	Sequence 49866, A
27	147	8.6	511 15 US-10-282-1228-48866	Sequence 50634, A
28	146	8.6	518 15 US-10-282-1228-50634	Sequence 62472, A
29	145	8.5	1106 15 US-10-282-1228-62472	Sequence 49697, A
30	144	8.5	3286 15 US-10-282-1228-49697	Sequence 56680, A
31	143	8.4	391 15 US-10-425-114-56680	Sequence 64537, A
32	143	8.4	603 15 US-10-282-1228-64537	Sequence 48048, A
33	143	8.4	1129 15 US-10-282-1228-48048	Sequence 64589, A
34	142	8.3	1011 15 US-10-282-1228-64589	Sequence 47930, A
35	142	8.3	3300 15 US-10-282-1228-47930	Sequence 49757, A
36	140.5	8.2	1331 15 US-10-282-1228-49757	Sequence 58750, A
37	140.5	8.2	1862 15 US-10-282-1228-58750	Sequence 12, Appl
38	140	8.2	1943 15 US-10-282-1228-58750	Sequence 25, Appl
39	140	8.2	1974 9 US-09-885-913A-12	Sequence 7, Appl
40	138.5	8.1	341 9 US-09-835-684-7	Sequence 11, Appl
41	138.5	8.1	341 9 US-09-880-371-7	Sequence 5, Appl
42	138.5	8.1	341 9 US-09-879-248-11	Sequence 5, Appl
43	138.5	8.1	341 9 US-09-770-693-5	Sequence 5, Appl
44	138.5	8.1	341 9 US-10-034-158-5	Sequence 5, Appl
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#### ALIGNMENTS

RESULT 1  
US-09-086-118-21  
Sequence 21, Application US/09086118  
Patent No. US20010011380A1  
GENERAL INFORMATION:  
APPLICANT: Labby, Ronald J.  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: WEL, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/086,118  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/046,109  
FILING DATE: 30-MAY-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1301  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-086-118-21

Query Match 100.0%; Score 1704; DB 9; Length 338;  
Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MOTTIKAHIGDGLGVSGLGAGQGLKGLNSAASSLGSSVYDKLSTTDKLTSLTSMFFGAL 60  
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DB 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMISLGLANA 338

## RESULT 2

US-09-835-684-1  
Sequence 1, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835, 684  
CURRENT FILING DATE: 2001-04-16  
PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Erwinia chrysanthemi  
US-09-835-684-1

Query Match 100.0%; Score 1704; DB 9; Length 338;  
Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
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## RESULT 3

US-09-880-371-1  
Sequence 1, Application US/09880371  
Patent No. US20020059658A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Derocher, Jay  
TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
FILE REFERENCE: 21829/91  
CURRENT APPLICATION NUMBER: US/09/880, 371  
CURRENT FILING DATE: 2001-06-13  
PRIOR APPLICATION NUMBER: 60/211,585  
PRIOR FILING DATE: 2000-06-15  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Erwinia chrysanthemi  
US-09-880-371-1

Query Match 100.0%; Score 1704; DB 9; Length 338;  
Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MOTTIKAHIGDGLGVSGLGAGQGLKGLNSAASSLGSSVYDKLSTTDKLTSLTSMFFGAL 60  
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QY 181 QGLSGAGAFNQLGNAIGMGVQNALSAALSNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240  
DB 181 QGLSGAGAFNQLGNAIGMGVQNALSAALSNVSTHVDGNRRHFPDKEDRGMAKEIQGFM 240  
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300  
DB 241 QYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDDMGTGASMDKFRQAMGMIKSAVAGD 300  
QY 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMISLGLANA 338  
DB 301 TGNNTNLNRGAGASLIGIDAADVGDKIANNMISLGLANA 338

## RESULT 4

US-09-879-248-1

; Sequence 1, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879, 248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-879-248-1

Query Match 100.0%; Score 1704; DB 9; Length 338;  
Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLGVSGIGAGGKGLNSAASSLSSGVDKLSTTDKLTSLTSMFPGAL 60  
DB 1 MOTTIKAHIGDGLGVSGIGAGGKGLNSAASSLSSGVDKLSTTDKLTSLTSMFPGAL 60  
QY 61 AOGIGASSKGLGMSNOIGSGFGNGAOGASNLSTVPKSGGDLSTMPKALDDLGHDTVT 120  
DB 61 AOGIGASSKGLGMSNOIGSGFGNGAOGASNLSTVPKSGGDLSTMPKALDDLGHDTVT 120  
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSTILNGLCQSGSGFSPSLGAGL 180  
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSTILNGLCQSGSGFSPSLGAGL 180  
QY 181 QGLSGAGAFNOLGNAIGVGONAAALSALSNVSTHVDGNRRHFVDEKDRGMAKEIGOFMD 240  
DB 181 QGLSGAGAFNOLGNAIGVGONAAALSALSNVSTHVDGNRRHFVDEKDRGMAKEIGOFMD 240  
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDMTGASMDKFRQAMGMIKSAVAGD 300  
DB 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDMTGASMDKFRQAMGMIKSAVAGD 300  
QY 301 TGNNTNLNRGAGASLGIIDAAVVDKTIANNISLGLANA 338  
DB 301 TGNNTNLNRGAGASLGIIDAAVVDKTIANNISLGLANA 338

RESULT 5  
US-09-770-693-1  
; Sequence 1, Application US/09770693  
; Patent No. US20020069434A1  
; GENERAL INFORMATION:  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: OOMYCETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF  
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS  
; FILE REFERENCE: 19603/2501  
; CURRENT APPLICATION NUMBER: US/09/770, 693  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: 60/178,565  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-770-693-1

Query Match 100.0%; Score 1704; DB 9; Length 338;

Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLGVSGIGAGGKGLNSAASSLSSGVDKLSTTDKLTSLTSMFPGAL 60  
DB 1 MOTTIKAHIGDGLGVSGIGAGGKGLNSAASSLSSGVDKLSTTDKLTSLTSMFPGAL 60  
QY 61 AOGIGASSKGLGMSNOIGSGFGNGAOGASNLSTVPKSGGDLSTMPKALDDLGHDTVT 120  
DB 61 AOGIGASSKGLGMSNOIGSGFGNGAOGASNLSTVPKSGGDLSTMPKALDDLGHDTVT 120  
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSTILNGLCQSGSGFSPSLGAGL 180  
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSTILNGLCQSGSGFSPSLGAGL 180  
QY 181 QGLSGAGAFNOLGNAIGVGONAAALSALSNVSTHVDGNRRHFVDEKDRGMAKEIGOFMD 240  
DB 181 QGLSGAGAFNOLGNAIGVGONAAALSALSNVSTHVDGNRRHFVDEKDRGMAKEIGOFMD 240  
QY 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDMTGASMDKFRQAMGMIKSAVAGD 300  
DB 241 QYPEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDMTGASMDKFRQAMGMIKSAVAGD 300  
QY 301 TGNNTNLNRGAGASLGIIDAAVVDKTIANNISLGLANA 338  
DB 301 TGNNTNLNRGAGASLGIIDAAVVDKTIANNISLGLANA 338

RESULT 6  
US-09-766-348-1  
; Sequence 1, Application US/09766348  
; Patent No. US20020116733A1  
; GENERAL INFORMATION:  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED RESISTANCE IN PLANTS BY  
; TITLE OF INVENTION: SEED TREATMENT  
; FILE REFERENCE: 19603/2986  
; CURRENT APPLICATION NUMBER: US/09/766,348  
; CURRENT FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 08/984,207  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: 60/033,230  
; PRIOR FILING DATE: 1996-12-05  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Erwinia chrysanthemi  
US-09-766-348-1

Query Match 100.0%; Score 1704; DB 9; Length 338;  
Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLGVSGIGAGGKGLNSAASSLSSGVDKLSTTDKLTSLTSMFPGAL 60  
DB 1 MOTTIKAHIGDGLGVSGIGAGGKGLNSAASSLSSGVDKLSTTDKLTSLTSMFPGAL 60  
QY 61 AOGIGASSKGLGMSNOIGSGFGNGAOGASNLSTVPKSGGDLSTMPKALDDLGHDTVT 120  
DB 61 AOGIGASSKGLGMSNOIGSGFGNGAOGASNLSTVPKSGGDLSTMPKALDDLGHDTVT 120  
QY 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSTILNGLCQSGSGFSPSLGAGL 180  
DB 121 KLTNOSNQLANSMNLASOMTQGNNAFGSGVNNALSTILNGLCQSGSGFSPSLGAGL 180  
QY 181 QGLSGAGAFNOLGNAIGVGONAAALSALSNVSTHVDGNRRHFVDEKDRGMAKEIGOFMD 240  
DB 181 QGLSGAGAFNOLGNAIGVGONAAALSALSNVSTHVDGNRRHFVDEKDRGMAKEIGOFMD 240

QY 241 QYEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
 |||||  
 Db 241 QYEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
 |||||  
 QY 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338  
 |||||  
 Db 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338  
 |||||

## RESULT 7

US-10-034-158-1  
 ; Sequence 1, Application US/10034158  
 ; Publication No. US20030028918A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS  
 ; FILE REFERENCE: 21829/230  
 ; CURRENT APPLICATION NUMBER: US/10/034,158  
 ; CURRENT FILING DATE: 2001-12-20  
 ; PRIOR APPLICATION NUMBER: 09/597,840  
 ; PRIOR FILING DATE: 2000-06-20  
 ; PRIOR APPLICATION NUMBER: 09/013,587  
 ; PRIOR FILING DATE: 1998-01-26  
 ; PRIOR APPLICATION NUMBER: 60/036,048  
 ; PRIOR FILING DATE: 1997-01-27  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1  
 ; LENGTH: 338  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia chrysanthemi  
 ; US-10-034-158-1

Query Match 100.0%; Score 1704; DB 14; Length 338;  
 Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLGVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60  
 |||||  
 Db 1 MOTTIKAHIGDGLGVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60  
 |||||  
 QY 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDLDLGHDTVT 120  
 |||||  
 Db 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDLDLGHDTVT 120  
 |||||  
 QY 121 KLTNOSNQLANSMNLASOMTQGNMNAFGSGVNNALSLILNGLGQSGSGFSQPSLGAAGL 180  
 |||||  
 Db 121 KLTNOSNQLANSMNLASOMTQGNMNAFGSGVNNALSLILNGLGQSGSGFSQPSLGAAGL 180  
 |||||  
 QY 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRRHFVYDKEDRGMAKEIGQFMD 240  
 |||||  
 Db 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRRHFVYDKEDRGMAKEIGQFMD 240  
 |||||  
 QY 241 QYEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
 |||||  
 Db 241 QYEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
 |||||  
 QY 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338  
 |||||  
 Db 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338  
 |||||

## RESULT 8

US-10-010-390-1  
 ; Sequence 1, Application US/10010390  
 ; Publication No. US20030104979A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Leon, Ernesto  
 ; APPLICANT: Oviedo, Agustín  
 ; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
 ; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
 ; FILE REFERENCE: 21829/111

; CURRENT APPLICATION NUMBER: US/10/010,390  
 ; CURRENT FILING DATE: 2001-11-05  
 ; PRIOR APPLICATION NUMBER: 60/248,169  
 ; PRIOR FILING DATE: 2000-11-13  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1  
 ; LENGTH: 338  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia chrysanthemi  
 ; US-10-010-390-1

Query Match 100.0%; Score 1704; DB 14; Length 338;  
 Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLGVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60  
 |||||  
 Db 1 MOTTIKAHIGDGLGVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60  
 |||||  
 QY 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDLDLGHDTVT 120  
 |||||  
 Db 61 AOGIGASSKGLGMSNOLGQSFNGAOGASNLISVPKSGDALSKMFDKALDLDLGHDTVT 120  
 |||||  
 QY 121 KLTNOSNQLANSMNLASOMTQGNMNAFGSGVNNALSLILNGLGQSGSGFSQPSLGAAGL 180  
 |||||  
 Db 121 KLTNOSNQLANSMNLASOMTQGNMNAFGSGVNNALSLILNGLGQSGSGFSQPSLGAAGL 180  
 |||||  
 QY 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRRHFVYDKEDRGMAKEIGQFMD 240  
 |||||  
 Db 181 QGLSGAGAFNOLGNAIGMGVQGNALSLSNVSTHVDGNRRHFVYDKEDRGMAKEIGQFMD 240  
 |||||  
 QY 241 QYEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
 |||||  
 Db 241 QYEIFGKPEYQKDGWSSPKTDDKSMKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
 |||||  
 QY 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338  
 |||||  
 Db 301 TGNNTNLNRGAGASLGIDAADVGDKIANNMGLKLANA 338  
 |||||

## RESULT 9

US-10-387-806-21  
 ; Sequence 21, Application US/10387806  
 ; Publication No. US20030182683A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Laby, Ron J.  
 ; APPLICANT: Beer, Steven V.  
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A  
 ; FILE REFERENCE: 19603/3187  
 ; CURRENT APPLICATION NUMBER: US/10/387,806  
 ; CURRENT FILING DATE: 2003-03-12  
 ; PRIOR APPLICATION NUMBER: 60/048,109  
 ; PRIOR FILING DATE: 1997-05-30  
 ; PRIOR APPLICATION NUMBER: 09/086,118  
 ; PRIOR FILING DATE: 1998-05-28  
 ; NUMBER OF SEQ ID NOS: 30  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 21  
 ; LENGTH: 338  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia chrysanthemi  
 ; US-10-387-806-21

Query Match 100.0%; Score 1704; DB 14; Length 338;  
 Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
 Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOTTIKAHIGDGLGVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60  
 |||||  
 Db 1 MOTTIKAHIGDGLGVSGAGLKGKLNLSASSLSGSSVDKLSSTTDKLTSLTSMFPGAL 60  
 |||||



QY 61 AAGGAGSSKGLGMSNOGSGFRNGAQAASNLISVPSKSGDALSKMPKALDLDLGHDTVT 120  
DB 61 AAGGAGSSKGLGMSNOGSGFRNGAQAASNLISVPSKSGDALSKMPKALDLDLGHDTVT 120  
QY 121 KLTVQSNQNLANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSMGFSQPSLGAAGL 180  
DB 121 KLTVQSNQNLANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSMGFSQPSLGAAGL 180  
QY 181 QGSLGAGAFNOLGNAIGMGVQONALSLALSNVSTHVDGNNHFPYDKEDRGMAKEIQGFMD 240  
DB 181 QGSLGAGAFNOLGNAIGMGVQONALSLALSNVSTHVDGNNHFPYDKEDRGMAKEIQGFMD 240  
QY 241 QYPEIFPKPEYQKXGMSPTDDSKMAKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
DB 241 QYPEIFPKPEYQKXGMSPTDDSKMAKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
QY 301 TGNNTNLNRGAGASLIGIDAIVGDKTANMSLGLTANA 338  
DB 301 TGNNTNLNRGAGASLIGIDAIVGDKTANMSLGLTANA 338

RESULT 10  
US-10-441-736-1  
; Sequence 1, Application US/10441736  
; Publication No. US20040016029A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/203 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/10/441, 736  
; CURRENT FILING DATE: 2003-05-20  
; PRIOR APPLICATION NUMBER: 60/107,243  
; PRIOR FILING DATE: 1998-11-05  
; PRIOR APPLICATION NUMBER: 09/431,614  
; PRIOR FILING DATE: 1999-11-02  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 338  
; TYPE: PR  
; ORGANISM: Erwinia chrysanthemi  
US-10-441-736-1

Query Match 100.0%; Score 1704; DB 15; Length 338;  
Best Local Similarity 100.0%; Pred. No. 1.5e-134;  
Matches 338; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MOTTIRKIHIGDGLVSGIGAGLKGKLSAASSLGSSVDKLSSTIDKLTSAITSMFPGAL 60  
DB 1 MOTTIRKIHIGDGLVSGIGAGLKGKLSAASSLGSSVDKLSSTIDKLTSAITSMFPGAL 60  
QY 61 AAGGAGSSKGLGMSNOGSGFRNGAQAASNLISVPSKSGDALSKMPKALDLDLGHDTVT 120  
DB 61 AAGGAGSSKGLGMSNOGSGFRNGAQAASNLISVPSKSGDALSKMPKALDLDLGHDTVT 120  
QY 121 KLTVQSNQNLANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSMGFSQPSLGAAGL 180  
DB 121 KLTVQSNQNLANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSMGFSQPSLGAAGL 180  
QY 181 QGSLGAGAFNOLGNAIGMGVQONALSLALSNVSTHVDGNNHFPYDKEDRGMAKEIQGFMD 240  
DB 181 QGSLGAGAFNOLGNAIGMGVQONALSLALSNVSTHVDGNNHFPYDKEDRGMAKEIQGFMD 240  
QY 241 QYPEIFPKPEYQKXGMSPTDDSKMAKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
DB 241 QYPEIFPKPEYQKXGMSPTDDSKMAKALSKPDDDGMTGASMDKFRQAMGMIKSAVAGD 300  
QY 301 TGNNTNLNRGAGASLIGIDAIVGDKTANMSLGLTANA 338  
DB 301 TGNNTNLNRGAGASLIGIDAIVGDKTANMSLGLTANA 338

RESULT 11  
US-09-086-118-23  
; Sequence 23, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Lady, Ronald J.  
; APPLICANT: Beet, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEREOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086,118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 403 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-086-118-23

Query Match 42.2%; Score 718.5; DB 9; Length 403;  
Best Local Similarity 42.8%; Pred. No. 8e-52;  
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;  
QY 1 MOTTIRKIHIGDGLVSGIGAGLKGKLSAASSLGSSVDKLSSTIDKLTSAITSMFPGAL 60  
DB 13 MOTTIRKIHIGDGLVSGIGAGLKGKLSAASSLGSSVDKLSSTIDKLTSAITSMFPGAL 67  
QY 56 -----FGALAAQGLGAS-SKGLGMSNOGSGFRNGAQAASNLISVPSKSGDALSKMPKALDLDLGHDTVT 128  
DB 68 SMMGGGLGAGGAGGGLGNGLGSGGGLGEGSLNLDMLGSLNLTLSKGGNNTTSTTNS 127  
QY 97 -----SGGDALS-----KMPKALDLDLGHDTVT 128  
DB 128 PLDQALGINSQNDSTSGTSTSDSSDPMOQLKMPFSEIMOSLFG-----DQDQ 179  
QY 129 LANSMLNASOMTQGNNAFSGSVNNALSLILGNGLGQSM-----SGFSQPS 174  
DB 180 TQSSSSGKQPTBEQNAAYKGVTDALSLGMLGSLGSLGNGLGSGGAGGAGTGLGSS 239  
QY 175 LGAGGLGSLGAGAFNOLGNAIGMGVQONALSLALSNVSTHVDGNNHFPYDKEDRGMAKE 234  
DB 240 LGAGGLGSLGAGAFNOLGNAIGMGVQONALSLALSNVSTHVDGNNHFPYDKEDRGMAKE 299

QY 235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMK 294  
 Db 300 IGFMDQYPEYFGKPEYQKDGWSSPKTDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMK 359  
 QY 295 SAVAGDTGNTNLNRGAGASLGIDAAVVDKIANMSLGLKLANA 338  
 Db 360 RPAWAGDTGNTNLNRGAGASLGIDAAVVDKIANMSLGLKLANA 403

RESULT 12  
 US-09-835-684-3  
 ; Sequence 3, Application US/09835684  
 ; Patent No. US20020019337A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Qiu, Dewen  
 ; APPLICANT: Renick, Dean  
 ; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
 ; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
 ; FILE REFERENCE: 21829/71  
 ; CURRENT APPLICATION NUMBER: US/09/835,684  
 ; CURRENT FILING DATE: 2001-04-16  
 ; PRIOR APPLICATION NUMBER: 60/198,359  
 ; PRIOR FILING DATE: 2000-04-19  
 ; NUMBER OF SEQ ID NOS: 12  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-09-835-684-3

Query Match 42.2%; Score 718.5; DB 9; Length 403;  
 Best Local Similarity 42.8%; Pred. No. 8e-52;  
 Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

QY 1 MQITIKAHIGDGLGVSGLAGQ--GLKGLNSAASSLGSSVVDKLSSTIDKLTSLTSM--- 55  
 Db 13 MQISI--GGAGGNNGLLGTSRQNNAGLG--NSA---LGIGGQNDVTVQLAGLLTGMMMM 67  
 QY 56 -----FGALAAQGLGAS--SKGLGMSNQLGSGFEN-----GAQASNLSTPK- 96  
 Db 68 SMMGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTTNS 127  
 QY 97 -----SGGDALS-----KMPDKALDLDLGHDTVTYKLTQNSNQ 128  
 Db 128 PLDDALGINTSQNDSTSGTSTSDSDSPMOQLKMFSEIMOSLFG-----DQDG 179  
 QY 129 LANSMLNASQMTQGNMNAFGSGVNNALSSILGNGLGQSM-----SGFSQPS 174  
 Db 180 TQSSSGGKQPTBEGQNAKKYKGVTDALSLGMLGNGLSQLLNGGLGGGQGNAGTGLDSS 239  
 QY 175 LGAGGLGGLGAGAFNQLGNAIGMGVGNALSLSVSTHVDDNNRHFDKEDRGMAKE 234  
 Db 240 LGGGLGNTLSPVYQQLGNAVGTGIGMKAGIQALNDIGTRHSSTRSFVKKGRAMAKE 299  
 QY 235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMK 294  
 Db 300 IGFMDQYPEYFGKPEYQKDGWSSPKTDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMK 359  
 QY 295 SAVAGDTGNTNLNRGAGASLGIDAAVVDKIANMSLGLKLANA 338  
 Db 360 RPAWAGDTGNTNLNRGAGASLGIDAAVVDKIANMSLGLKLANA 403

RESULT 13  
 US-09-880-371-3  
 ; Sequence 3, Application US/09880371  
 ; Patent No. US20020059658A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wei, Zhong-Min  
 ; APPLICANT: Derocher, Jay

; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
 ; TITLE OF INVENTION: PLANTS  
 ; FILE REFERENCE: 21829/91  
 ; CURRENT APPLICATION NUMBER: US/09/880,371  
 ; CURRENT FILING DATE: 2001-06-13  
 ; PRIOR APPLICATION NUMBER: 60/211,585  
 ; PRIOR FILING DATE: 2000-06-15  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-09-880-371-3

Query Match 42.2%; Score 718.5; DB 9; Length 403;  
 Best Local Similarity 42.8%; Pred. No. 8e-52;  
 Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

QY 1 MQITIKAHIGDGLGVSGLAGQ--GLKGLNSAASSLGSSVVDKLSSTIDKLTSLTSM--- 55  
 Db 13 MQISI--GGAGGNNGLLGTSRQNNAGLG--NSA---LGIGGQNDVTVQLAGLLTGMMMM 67  
 QY 56 -----FGALAAQGLGAS--SKGLGMSNQLGSGFEN-----GAQASNLSTPK- 96  
 Db 68 SMMGGGLMGGLGGGLGNGLGSGGGLGEGLSNALNDMLGSLNTLGSKGGNNTTSTTNS 127  
 QY 97 -----SGGDALS-----KMPDKALDLDLGHDTVTYKLTQNSNQ 128  
 Db 128 PLDDALGINTSQNDSTSGTSTSDSDSPMOQLKMFSEIMOSLFG-----DQDG 179  
 QY 129 LANSMLNASQMTQGNMNAFGSGVNNALSSILGNGLGQSM-----SGFSQPS 174  
 Db 180 TQSSSGGKQPTBEGQNAKKYKGVTDALSLGMLGNGLSQLLNGGLGGGQGNAGTGLDSS 239  
 QY 175 LGAGGLGGLGAGAFNQLGNAIGMGVGNALSLSVSTHVDDNNRHFDKEDRGMAKE 234  
 Db 240 LGGGLGNTLSPVYQQLGNAVGTGIGMKAGIQALNDIGTRHSSTRSFVKKGRAMAKE 299  
 QY 235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMK 294  
 Db 300 IGFMDQYPEYFGKPEYQKDGWSSPKTDDKSMWAKALSKPDDDGWTGASMDKFRQAMGMK 359  
 QY 295 SAVAGDTGNTNLNRGAGASLGIDAAVVDKIANMSLGLKLANA 338  
 Db 360 RPAWAGDTGNTNLNRGAGASLGIDAAVVDKIANMSLGLKLANA 403

RESULT 14  
 US-09-879-248-3  
 ; Sequence 3, Application US/09879248  
 ; Patent No. US20020062500A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fan, Hao  
 ; APPLICANT: Wei, Zhong-Min  
 ; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
 ; FILE REFERENCE: 21829/81  
 ; CURRENT APPLICATION NUMBER: US/09/879,248  
 ; CURRENT FILING DATE: 2001-06-12  
 ; PRIOR APPLICATION NUMBER: 60/212,211  
 ; PRIOR FILING DATE: 2000-06-16  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: Patentin Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 403  
 ; TYPE: PRT  
 ; ORGANISM: Erwinia amylovora  
 ; US-09-879-248-3

Query Match 42.2%; Score 718.5; DB 9; Length 403;  
 Best Local Similarity 42.8%; Pred. No. 8e-52;  
 Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

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QY      1 MOTTIKAHIGDGLGVSGIAGQ--GKGLNSAASSLGSSVDKLTSTIDKLTSLTSM--- 55
      13 MQISI--CGAGGNNGLLGTSRQNAIGLQ--NSA---LGLGGNQNNDTVNQLAGLIGMMMM 67
QY      56 -----FCGALAOGLGAS--SKGLGMSNOLGOSFGN-----GAOGASNLSVPK- 96
      68 SMNGGGGLMGGLGGLGGLGGLGSSGGLGEGLSNMLNDMLGGLSLMTLSSKGGNNTTSTTNS 127
QY      97 -----SGGDALS-----KMFDKALDDLGHDTVTKLTJNSNQ 128
      128 PLDQALGINTSQNDSTSGTSTSDSDPWOQLKMFSEIMQSLFG-----DQDQG 179
QY      129 LANSMLNASQMTQGNMNAFSGGVNNALSSIIIGNLGQSM-----SGFSOPS 174
      180 TCGSSSGGKOPTBEGONAYKKKGVTDALSGLMNGLSQLLGNGLGGGGGAGNAGTGLDSS 239
QY      175 LGAGGLQGLSGAGAFNOLGNAIGMGVGNALSLSNVSTHVDGNRHFVDEKEDRGMAKE 234
      240 LGGKGLONLSGPVYDYOQLGNAVGTGIGMKAGIQALNDIGTHRSSTRSFVAKGDRAMAKE 299
QY      235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIK 294
      300 IGFMDQYPEVFGKPYQKPGQGEVKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIK 359
QY      295 SAVAGDTGNTNMLNRGAGASLGIDA VVGDKIANMGLKLANA 338
      360 RPAAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMALGKLGAA 403

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## RESULT 15

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US-09-770-693-3
; Sequence 3, Application US/09770693
; Patent No. US2002006943A1
; GENERAL INFORMATION:
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: COMBETE-RESISTANT TRANSGENIC PLANTS BY VIRTUE OF
; TITLE OF INVENTION: PATHOGEN-INDUCED EXPRESSION OF A HETEROLOGOUS
; FILE REFERENCE: 19603/2501
; CURRENT APPLICATION NUMBER: US/09/770,693
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,565
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Brwinia amylovora
US-09-770-693-3

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```

Query Match      42.2% Score 718.5; DB 9; Length 403;
Best Local Similarity 42.8%; Pred. No. 8e-52;
Matches 173; Conservative 41; Mismatches 111; Indels 79; Gaps 11;

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```

QY      1 MOTTIKAHIGDGLGVSGIAGQ--GKGLNSAASSLGSSVDKLTSTIDKLTSLTSM--- 55
      13 MQISI--CGAGGNNGLLGTSRQNAIGLQ--NSA---LGLGGNQNNDTVNQLAGLIGMMMM 67
QY      56 -----FCGALAOGLGAS--SKGLGMSNOLGOSFGN-----GAOGASNLSVPK- 96
      68 SMNGGGGLMGGLGGLGGLGGLGSSGGLGEGLSNMLNDMLGGLSLMTLSSKGGNNTTSTTNS 127
QY      97 -----SGGDALS-----KMFDKALDDLGHDTVTKLTJNSNQ 128
      128 PLDQALGINTSQNDSTSGTSTSDSDPWOQLKMFSEIMQSLFG-----DQDQG 179
QY      129 LANSMLNASQMTQGNMNAFSGGVNNALSSIIIGNLGQSM-----SGFSOPS 174
      180 TCGSSSGGKOPTBEGONAYKKKGVTDALSGLMNGLSQLLGNGLGGGGGAGNAGTGLDSS 239

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QY      175 LGAGGLQGLSGAGAFNOLGNAIGMGVGNALSLSNVSTHVDGNRHFVDEKEDRGMAKE 234
      240 LGGKGLONLSGPVYDYOQLGNAVGTGIGMKAGIQALNDIGTHRSSTRSFVAKGDRAMAKE 299
QY      235 IGFMDQYPEIFGKPEYQKDGWSSPKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIK 294
      300 IGFMDQYPEVFGKPYQKPGQGEVKTDDKSWAKALSKPDDGWTGASMDKFRQAMGMIK 359
QY      295 SAVAGDTGNTNMLNRGAGASLGIDA VVGDKIANMGLKLANA 338
      360 RPAAGDTGNGNLQARGAGSSSLGIDAMWAGDAINNMALGKLGAA 403

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Search completed: March 11, 2005, 13:14:14  
Job time : 65.2861 secs

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GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: March 11, 2005, 12:36:12 ; Search time 21.9523 Seconds  
(without alignments)  
1169.775 Million cell updates/sec

Title: US-09-597-840-7

Perfect score: 1756  
Sequence: 1 MSYGNIQSPENLPGLOLNTL.....QQMLAONGSGSQSTQPM 344

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/iaa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/iaa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/iaa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/iaa/PCITUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/iaa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1756	100.0	344	1 US-08-891-254-7	Sequence 7, Appli
2	1756	100.0	344	2 US-08-819-539-7	Sequence 7, Appli
3	1756	100.0	344	2 US-09-030-270A-7	Sequence 7, Appli
4	1756	100.0	344	3 US-08-984-207-7	Sequence 7, Appli
5	1756	100.0	344	3 US-09-013-587-7	Sequence 7, Appli
6	1756	100.0	344	3 US-09-086-118-27	Sequence 7, Appli
7	1756	100.0	344	5 US-09-431-614-15	Sequence 15, Appli
8	1756	100.0	344	5 PCT-US96-08819-7	Sequence 7, Appli
9	279.5	15.9	235	2 US-08-529-1908-1	Sequence 1, Appli
10	279.5	15.9	641	4 US-09-249-585A-3	Sequence 3, Appli
11	279.5	15.9	641	4 US-09-410-399-4	Sequence 4, Appli
12	263.5	15.0	201	3 US-09-052-995-1	Sequence 1, Appli
13	263.5	15.0	201	3 US-09-053-003-40	Sequence 40, Appli
14	263.5	15.0	201	4 US-09-054-281-22	Sequence 22, Appli
15	263.5	15.0	201	4 US-09-478-948-6	Sequence 6, Appli
16	263.5	15.0	201	4 US-09-818-094-40	Sequence 40, Appli
17	263.5	15.0	201	4 US-09-754-947-5	Sequence 5, Appli
18	254.5	14.5	200	4 US-09-989-981A-13	Sequence 13, Appli
19	247.5	14.1	870	2 US-09-010-928B-2	Sequence 2, Appli
20	246	14.0	738	3 US-08-864-038A-3	Sequence 3, Appli
21	241.5	13.8	745	2 US-09-010-928B-28	Sequence 28, Appli
22	241.5	13.8	907	2 US-09-060-756-728	Sequence 728, App
23	236.5	13.5	334	3 US-09-060-756-728	Sequence 728, App
24	236.5	13.5	334	4 US-09-670-314-727	Sequence 727, App
25	226.5	12.9	318	4 US-09-670-314-727	Sequence 727, App
26	226.5	12.9	318	4 US-09-670-314-727	Sequence 727, App
27	224	12.8	528	4 US-09-490-291-8	Sequence 8, Appli

28	223	12.7	606	3 US-08-556-978B-21	Sequence 21, Appli
29	223	12.7	606	3 US-09-247-806-4	Sequence 4, Appli
30	222	12.6	747	3 US-09-034-177-3	Sequence 3, Appli
31	219	12.5	718	1 US-08-425-069-2	Sequence 2, Appli
32	219	12.5	718	2 US-08-317-844B-2	Sequence 2, Appli
33	218	12.4	651	3 US-08-556-978B-19	Sequence 19, Appli
34	218	12.4	651	3 US-09-247-806-1	Sequence 1, Appli
35	218	12.4	651	4 US-09-863-859-1	Sequence 1, Appli
36	217.5	12.4	508	4 US-09-270-767-46233	Sequence 46233, A
37	217	12.4	482	4 US-09-902-540-14708	Sequence 14708, A
38	215	12.2	100	4 US-09-411-067C-4	Sequence 4, Appli
39	215	12.2	604	3 US-08-556-978B-63	Sequence 63, Appli
40	213.5	12.2	606	3 US-09-247-806-6	Sequence 6, Appli
41	212.5	12.1	316	4 US-09-538-092-997	Sequence 997, App
42	211	12.0	606	3 US-08-556-978B-23	Sequence 23, Appli
43	211	12.0	606	3 US-09-247-806-8	Sequence 8, Appli
44	211	12.0	809	4 US-09-863-859-13	Sequence 13, Appli
45	211	12.0	818	4 US-09-863-859-22	Sequence 22, Appli

## ALIGNMENTS

RESULT 1  
US-08-891-254-7  
Sequence 7, Application US/08891254  
Patent No. 5776889  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance in Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,254  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 10,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-7  
Query Match 100.0%; Score 1756; DB 1; Length 344;  
Best Local Similarity 100.0%; Pred. No. 1.3e-131;  
Matches 344; Conservative 0; Mismatches 0; Gaps 0;  
QY 1 MSYGNIQSPENLPGLOLNTNTNSQSGSQVQDLIKYVKXOILNLTIALVQKAAQSAG 60



QY 1 MSVGNISPSNLPGLQNLNTNTNSQQSGSVODLIKQVEKDIINTIALVQKAASAG 60  
Db 1 MSVGNISPSNLPGLQNLNTNTNSQQSGSVODLIKQVEKDIINTIALVQKAASAG 60  
QY 61 GNTGNTNAPAKGNANAGANDPSKNDPSKSOAPOSANKTGNVDANNODPMQALMQLLE 120  
Db 61 GNTGNTNAPAKGNANAGANDPSKNDPSKSOAPOSANKTGNVDANNODPMQALMQLLE 120  
QY 121 DLVYLLKAAALHMQPGGNDKNGVGVANGAKAGGCGLALEIQLIILQLGCGGAGA 180  
Db 121 DLVYLLKAAALHMQPGGNDKNGVGVANGAKAGGCGLALEIQLIILQLGCGGAGA 180  
QY 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240  
Db 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240  
QY 241 QGGITGVLOKLMKILNLVQMMQGGIGGNGQAQGSKGAGNAPASGANPGANQPGSAD 300  
Db 241 QGGITGVLOKLMKILNLVQMMQGGIGGNGQAQGSKGAGNAPASGANPGANQPGSAD 300  
QY 301 DQSSGQNNLOSQIMDVYKEVVQILQMLAAQNGSQGSTSTQPM 344  
Db 301 DQSSGQNNLOSQIMDVYKEVVQILQMLAAQNGSQGSTSTQPM 344

## RESULT 4

US-08-984-207-7  
Sequence 7, Application US/08984207  
Patent No. 6235974

## GENERAL INFORMATION:

APPLICANT: Qiu, Dwen  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207  
FILING DATE:  
CLASSIFICATION:

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/033,230  
FILING DATE: 05-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1201  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600

## INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-984-207-7

Query Match

100.0%; Score 1756; DB 3; Length 344;

Best Local Similarity 100.0%; Pred. No. 1,3e-131;  
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNISPSNLPGLQNLNTNTNSQQSGSVODLIKQVEKDIINTIALVQKAASAG 60  
Db 1 MSVGNISPSNLPGLQNLNTNTNSQQSGSVODLIKQVEKDIINTIALVQKAASAG 60  
QY 61 GNTGNTNAPAKGNANAGANDPSKNDPSKSOAPOSANKTGNVDANNODPMQALMQLLE 120  
Db 61 GNTGNTNAPAKGNANAGANDPSKNDPSKSOAPOSANKTGNVDANNODPMQALMQLLE 120  
QY 121 DLVYLLKAAALHMQPGGNDKNGVGVANGAKAGGCGLALEIQLIILQLGCGGAGA 180  
Db 121 DLVYLLKAAALHMQPGGNDKNGVGVANGAKAGGCGLALEIQLIILQLGCGGAGA 180  
QY 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240  
Db 181 GGAGGGVGVAGAGDGGSGAGAGANGADGNGVNGVANGPQVAGDVNGANGADDSSED 240  
QY 241 QGGITGVLOKLMKILNLVQMMQGGIGGNGQAQGSKGAGNAPASGANPGANQPGSAD 300  
Db 241 QGGITGVLOKLMKILNLVQMMQGGIGGNGQAQGSKGAGNAPASGANPGANQPGSAD 300  
QY 301 DQSSGQNNLOSQIMDVYKEVVQILQMLAAQNGSQGSTSTQPM 344  
Db 301 DQSSGQNNLOSQIMDVYKEVVQILQMLAAQNGSQGSTSTQPM 344

## RESULT 5

US-09-013-587-7  
Sequence 7, Application US/09013587  
Patent No. 627814

## GENERAL INFORMATION:

APPLICANT: Qiu, Dwen  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/013,587  
FILING DATE:  
CLASSIFICATION:

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/036,048  
FILING DATE: 27-JAN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1501  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600

## INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:  
LENGTH: 344 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-013-587-7

Query Match 100.0%; Score 1756; DB 3; Length 344;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-131;  
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKIDILNITIALVQKAQSAG 60  
 DB 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKIDILNITIALVQKAQSAG 60  
 QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQPMQALMQLLE 120  
 DB 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQPMQALMQLLE 120  
 QY 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGCGGLAELQEIFQILAIQIGGGAGA 180  
 DB 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGCGGLAELQEIFQILAIQIGGGAGA 180  
 QY 181 GGAGGGVGAAGADGGSGAGAGANGADGGNGVNGQANGPQNAQDVNGANGADDSSED 240  
 DB 181 GGAGGGVGAAGADGGSGAGAGANGADGGNGVNGQANGPQNAQDVNGANGADDSSED 240  
 QY 241 QGGITGVLTQKLMKILNALVQMQGGIGGNGQAQGSKGANGNAPASGANPGANQPSAD 300  
 DB 241 QGGITGVLTQKLMKILNALVQMQGGIGGNGQAQGSKGANGNAPASGANPGANQPSAD 300  
 QY 301 DQSSGNNLOSQIMDVKEVVIQIQMLAQNQSGSQSTSTQPM 344  
 DB 301 DQSSGNNLOSQIMDVKEVVIQIQMLAQNQSGSQSTSTQPM 344

## RESULT 6

US-09-118-27  
 Sequence 27, Application US/09086118  
 Patent No. 6583107

## GENERAL INFORMATION:

APPLICANT: Laby, Ronald J.  
 APPLICANT: Beer, Steven V.

APPLICANT: Wei, Zhong-Min  
 TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR

TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
 THEREOF

TITLE OF INVENTION: THEREOF  
 NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESSES:  
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP

STREET: Clinton Square, P.O. Box 1051  
 CITY: Rochester

STATE: New York  
 COUNTRY: U.S.A.

ZIP: 14603  
 COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk  
 OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/086,118  
 FILING DATE:

CLASSIFICATION:  
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/048,109  
 FILING DATE: 30-MAY-1997

ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727  
 TELEPHONE: (716) 263-1304

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1304

INFORMATION FOR SEQ ID NO: 27:  
 SEQUENCE CHARACTERISTICS:

LENGTH: 344 amino acids  
 TYPE: amino acid

STRANDEDNESS:  
 TOPOLOGY: linear

MOLECULE TYPE: protein  
 US-09-086-118-27

Query Match 100.0%; Score 1756; DB 4; Length 344;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-131;  
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKIDILNITIALVQKAQSAG 60  
 DB 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKIDILNITIALVQKAQSAG 60  
 QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQPMQALMQLLE 120  
 DB 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQPMQALMQLLE 120  
 QY 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGCGGLAELQEIFQILAIQIGGGAGA 180  
 DB 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGCGGLAELQEIFQILAIQIGGGAGA 180  
 QY 181 GGAGGGVGAAGADGGSGAGAGANGADGGNGVNGQANGPQNAQDVNGANGADDSSED 240  
 DB 181 GGAGGGVGAAGADGGSGAGAGANGADGGNGVNGQANGPQNAQDVNGANGADDSSED 240  
 QY 241 QGGITGVLTQKLMKILNALVQMQGGIGGNGQAQGSKGANGNAPASGANPGANQPSAD 300  
 DB 241 QGGITGVLTQKLMKILNALVQMQGGIGGNGQAQGSKGANGNAPASGANPGANQPSAD 300  
 QY 301 DQSSGNNLOSQIMDVKEVVIQIQMLAQNQSGSQSTSTQPM 344  
 DB 301 DQSSGNNLOSQIMDVKEVVIQIQMLAQNQSGSQSTSTQPM 344

## RESULT 7

US-09-431-614-15  
 Sequence 15, Application US/09431614  
 Patent No. 6624139

## GENERAL INFORMATION:

APPLICANT: Wei, Zhong-Min  
 APPLICANT: Schading, Richard L.

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
 TITLE OF INVENTION: RESISTANCE

FILE REFERENCE: 21829/41 (EBC-003)  
 CURRENT APPLICATION NUMBER: US/09/431,614

CURRENT FILING DATE: 1999-11-02  
 EARLIER APPLICATION NUMBER: 60/107,243

EARLIER FILING DATE: 1998-11-05  
 NUMBER OF SEQ ID NOS: 18

SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO 15

LENGTH: 344  
 TYPE: PRT

ORGANISM: Pseudomonas solanacearum  
 US-09-431-614-15

Query Match 100.0%; Score 1756; DB 4; Length 344;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-131;  
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKIDILNITIALVQKAQSAG 60  
 DB 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKIDILNITIALVQKAQSAG 60  
 QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQPMQALMQLLE 120  
 DB 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGVNDANNQPMQALMQLLE 120  
 QY 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGCGGLAELQEIFQILAIQIGGGAGA 180  
 DB 121 DLVLTALALHMQPGGNDKNGVGVGANGAKAGGCGGLAELQEIFQILAIQIGGGAGA 180  
 QY 181 GGAGGGVGAAGADGGSGAGAGANGADGGNGVNGQANGPQNAQDVNGANGADDSSED 240  
 DB 181 GGAGGGVGAAGADGGSGAGAGANGADGGNGVNGQANGPQNAQDVNGANGADDSSED 240



QY 241 QGGTGVLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300  
DB 241 QGGTGVLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300  
QY 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGSQSTSTQPM 344  
DB 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGSQSTSTQPM 344

## RESULT 8

PCT-US96-08819-7

Sequence 7, Application PC/TUS9608819

GENERAL INFORMATION:

APPLICANT: Cornell Research Foundation, Inc.

TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED

TITLE OF INVENTION: RESISTANCE IN PLANTS

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans &amp; Doyle LLP

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: U.S.A.

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US96/08819

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/475, 775

FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:

NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30,727

REFERENCE/DOCKET NUMBER: 19603/10051

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1304

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 344 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

PCT-US96-08819-7

Query Match 100.0%; Score 1756; DB 5; Length 344;

Best Local Similarity 100.0%; Pred. No. 1,3e-131;

Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSVGNIGSPSNLPGLQNLNLTNTNSQQSGSVQDLIKYVEKDIILNLTALVQRAQASAG 60  
DB 1 MSVGNIGSPSNLPGLQNLNLTNTNSQQSGSVQDLIKYVEKDIILNLTALVQRAQASAG 60  
QY 61 GNGGNGNAPAKGNNANAGANDPSKNDPSKQAPQASAKTGNVDANNQDPQMLMQLLE 120  
DB 61 GNGGNGNAPAKGNNANAGANDPSKNDPSKQAPQASAKTGNVDANNQDPQMLMQLLE 120  
QY 121 DLVLTLLKALAHMOQPGGNDKNGVGVGANGAKGAGGQGLAALOEIIOIILAQLOGGAGA 180  
DB 121 DLVLTLLKALAHMOQPGGNDKNGVGVGANGAKGAGGQGLAALOEIIOIILAQLOGGAGA 180  
QY 181 GAGAGGVGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240  
DB 181 GAGAGGVGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240

QY 241 QGGTGVLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300  
DB 241 QGGTGVLOKLMKTLNLTALVQMMQGGGNOAGSGSKAGNAPASGANPGANQPGSAD 300  
QY 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGSQSTSTQPM 344  
DB 301 DOSSGNNLQSQIMDVYKEVVQILQOMLAAQNGSGSQSTSTQPM 344

## RESULT 9

US-08-529-190B-1

Sequence 1, Application US/08529190B

Patent No. 5833991

GENERAL INFORMATION:

APPLICANT: Masucci, Maria G.

TITLE OF INVENTION: GLYCINE-CONTAINING SEQUENCES

TITLE OF INVENTION: CONFERRING INVISIBILITY TO THE IMMUNE SYSTEM

NUMBER OF SEQUENCES: 76

CORRESPONDENCE ADDRESS:

ADDRESSEE: Banner &amp; Witcoff, Ltd.

STREET: One Financial Center

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02111

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: Wordperfect 6.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/529,190B

FILING DATE: 15-SEP-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: SE9501324-9

FILING DATE: 10-APR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US08/522,595

FILING DATE: 01-SEP-1995

ATTORNEY/AGENT INFORMATION:

NAME: Williams, Ph.D., Kathleen A

REGISTRATION NUMBER: 34,380

REFERENCE/DOCKET NUMBER: 3255/53015

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-345-9100

TELEFAX: 617-345-9111

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 235 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-529-190B-1

Query Match 15.9%; Score 279.5; DB 2; Length 235;

Best Local Similarity 32.8%; Pred. No. 9.5e-15;

Matches 84; Conservative 5; Mismatches 94; Indels 73; Gaps 7;

QY 59 AGNGTGTGNAAPAKDGNANAGANDPSKNDPSKQAPQASAKTGNVDANNQDPQMLMQL 118  
DB 16 AGGAGAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 54  
QY 119 LEDLVLTLLKALAHMOQPGGNDKNGVGVGANGAKGAGGQGLAALOEIIOIILAQLOGGAGA 178  
DB 55 -----AGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 86  
QY 179 GAG-----GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 229  
DB 87 GAG 146  
QY 230 GAG 289







GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: March 11, 2005, 12:45:48 ; Search time 64.4095 Seconds

(without alignments)  
1761.643 Million cell updates/sec

Title: US-09-597-840-7

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Gapop 10.0 , Gapext 0.5

Searched: 1396920 seqs, 329844858 residues

Total number of hits satisfying chosen parameters: 1396920

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications MA:\*

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20: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1756	100.0	344	9	US-09-086-118-27
2	1756	100.0	344	9	US-09-835-684-11
3	1756	100.0	344	9	US-09-880-371-11
4	1756	100.0	344	9	US-09-879-248-15
5	1756	100.0	344	9	US-09-770-693-7
6	1756	100.0	344	9	US-09-766-348-7
7	1756	100.0	344	14	US-10-034-158-7
8	1756	100.0	344	14	US-10-010-390-11
9	1756	100.0	344	14	US-10-387-806-27
10	1756	100.0	344	15	US-10-441-736-15
11	302	17.2	615	15	US-10-282-122A-64786
12	284	16.2	606	15	US-10-282-122A-64464
13	279.5	15.9	641	14	US-10-138-098-52

14	279.5	15.9	641	14	US-10-294-804-4	Sequence 4, Appl1
15	279.5	15.9	641	15	US-10-325-838B-22	Sequence 22, Appl1
16	279.5	15.9	641	16	US-10-732-694-11	Sequence 11, Appl1
17	279.5	15.9	641	17	US-10-476-615-52	Sequence 52, Appl1
18	279.5	15.9	1079	10	US-09-820-843A-20	Sequence 20, Appl1
19	279	15.9	562	15	US-10-282-122A-64514	Sequence 64514, A
20	278.5	15.9	1381	15	US-10-282-122A-64895	Sequence 64895, A
21	278	15.8	1306	15	US-10-282-122A-64405	Sequence 64405, A
22	276.5	15.7	484	10	US-09-820-843A-19	Sequence 19, Appl1
23	276.5	15.7	484	15	US-10-282-122A-64867	Sequence 64867, A
24	273.5	15.6	588	15	US-10-282-122A-64869	Sequence 64869, A
25	268.5	15.3	357	9	US-09-864-761-35807	Sequence 35807, A
26	268.5	15.3	778	15	US-10-282-122A-64751	Sequence 64751, A
27	267	15.2	694	9	US-10-282-122A-64726	Sequence 64726, A
28	266	15.1	283	9	US-09-864-761-36720	Sequence 36720, A
29	263.5	15.0	201	9	US-09-818-094-40	Sequence 40, Appl1
30	263.5	15.0	201	9	US-09-848-990-22	Sequence 22, Appl1
31	263.5	15.0	201	9	US-09-760-364-14	Sequence 14, Appl1
32	263.5	15.0	201	11	US-09-754-947-5	Sequence 5, Appl1
33	263.5	15.0	201	15	US-10-339-744-5	Sequence 5, Appl1
34	260.5	14.8	532	15	US-10-282-122A-64658	Sequence 64658, A
35	260	14.8	256	10	US-09-820-843A-18	Sequence 18, Appl1
36	259.5	14.8	923	15	US-10-282-122A-64474	Sequence 64474, A
37	259.5	14.8	923	15	US-10-282-122A-64361	Sequence 64361, A
38	259	14.7	584	15	US-10-282-122A-64903	Sequence 64903, A
39	257	14.6	491	15	US-10-282-122A-64558	Sequence 64558, A
40	255	14.5	591	15	US-10-282-122A-64363	Sequence 64363, A
41	254.5	14.5	200	9	US-09-798-584-18	Sequence 18, Appl1
42	254.5	14.5	200	9	US-09-967-624-19	Sequence 19, Appl1
43	254.5	14.5	200	9	US-09-967-667-18	Sequence 18, Appl1
44	254.5	14.5	200	10	US-09-921-159-34	Sequence 34, Appl1
45	254.5	14.5	200	10	US-09-990-940-21	Sequence 21, Appl1

## ALIGNMENTS

RESULT 1  
US-09-086-118-27  
; Sequence 27, Application US/09086118  
; Patent No. US20010011380A1  
; GENERAL INFORMATION:  
; APPLICANT: Labv, Ronald J.  
; APPLICANT: Beert, Steven V.  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES  
; TITLE OF INVENTION: THEROOF  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/086.118  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,109  
; FILING DATE: 30-MAY-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1301  
; TELECOMMUNICATION INFORMATION:

```

;
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 27
;
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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; OS-09-086-118-27

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Query Match	100.0%	Score 1756;	DB 9;	Length 344;
Best Local Similarity	100.0%	Pred. 6.4e-117;		
Matches 344;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

[illegible]

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, RESULT 2
, US-09-835-684-11
, Sequence 11, Application US/09835684
, Patent No. US20020019337A1
, GENERAL INFORMATION:
, APPLICANT: Wei, Zhong-Min
, APPLICANT: Qiu, Dewen
, TITLE OF INVENTION: Remick, Dean
, TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
, TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR
, TITLE OF INVENTION: DESICCATION
, FILE REFERENCE: 21829/71
, CURRENT APPLICATION NUMBER: US/09/835,684
, CURRENT FILING DATE: 2001-04-16
, PRIOR APPLICATION NUMBER: 60/198,359
, PRIOR FILING DATE: 2000-04-19
, NUMBER OF SEQ ID NOS: 12
, SOFTWARE: PatentIn Ver. 2.1
, SEQ ID NO 11
, LENGTH: 344
, TYPE: PR1
, ORGANISM: Pseudomonas solanacearum
, US-09-835-684-11

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Query Match	100.0%	Score 1756	DB 9	Length 344
Best Local Similarity	100.0%	Pred. No. 6.4e-117		
Matches 344	0	Mismatches	0	Gaps 0

[illegible]

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Qy	121	DLVRLTLKALATHNQPGSGNDKGVGVGAGAGAGGGGLAEALQEIQLLAOLGGGAGA	180
Db	121	DLVRLTLKALATHNQPGSGNDKGVGVGAGAGAGGGGLAEALQEIQLLAOLGGGAGA	180
Qy	181	GGAGGGVGGAGGADGGSGAGGAGGAGNANDGSGNYNGNONGPQWAGGVNNGANGADGSED	240
Db	181	GGAGGGVGGAGGADGGSGAGGAGGAGNANDGSGNYNGNONGPQWAGGVNNGANGADGSED	240
Qy	241	QGGGLTGVLOKLMKKTLLNALVQNMQOGGLGGGAGNQAQGGSKGAGNAPSAGANPGANQPGSAD	300
Db	241	QGGGLTGVLOKLMKKTLLNALVQNMQOGGLGGGAGNQAQGGSKGAGNAPSAGANPGANQPGSAD	300
Qy	301	DQSSGGNNLQSQIMDVEVEVVOYLLQOMLAQNGSGQSTSTQPM	344
Db	301	DQSSGGNNLQSQIMDVEVEVVOYLLQOMLAQNGSGQSTSTQPM	344

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RESULT 3
US-09-880-371-11
: Sequence 11, Application US/09880371
: Patent No. US20020059658A1
: GENERAL INFORMATION:
: APPLICANT: Wei, Zhong-Min
: APPLICANT: Derocher, Jay
: TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC
: TITLE OF INVENTION: PLANTS
: FILE REFERENCE: 21829/91
: CURRENT APPLICATION NUMBER: US/09/880,371
: CURRENT FILING DATE: 2001-06-13
: PRIOR APPLICATION NUMBER: 60/211,585
: PRIOR FILING DATE: 2000-06-15
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 11
: LENGTH: 344
: TYPE: PR1
: ORGANISM: Pseudomonas solanacearum
US-09-880-371-11

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Query Match	100.0%;	Score 1756;	DB 9;	Length 344;
Best Local Similarity	100.0%;	Pred. No. 6.4e-117;		
Matches 344;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Oy	1	MSVGNIGSPBNIPGLONILNLTNTNTSQQSGOSVODLIRQVEKDLITLITLIALVQKAAOSAG	60
Db	1	MSVGNIGSPBNIPGLONILNLTNTNTSQQSGOSVODLIRQVEKDLITLITLIALVQKAAOSAG	60
Oy	61	GNTGNTGNAPAKDGNANAGANDPSKNIDPSKSAOPASAKTGNVDDANNODPMQALMLLE	120
Db	61	GNTGNTGNAPAKDGNANAGANDPSKNIDPSKSAOPASAKTGNVDDANNODPMQALMLLE	120
Oy	121	DLVYLLKAAILHMQPFGNDKNGVGGANGAKAGGGQGLAEALOEIEQILIAQLGGGGAGA	180
Db	121	DLVYLLKAAILHMQPFGNDKNGVGGANGAKAGGGQGLAEALOEIEQILIAQLGGGGAGA	180
Oy	181	GGAAGGGVGAGAGADGGSGAGAGAGANGADGNGVNGNANGPQNAAGDVNGANGADGSED	240
Db	181	GGAAGGGVGAGAGADGGSGAGAGAGANGADGNGVNGNANGPQNAAGDVNGANGADGSED	240
Oy	241	QGGITGVLTQKLMKILNALVQMMQGGGLGGGNGAQGGSGAAGNAPASGANGPQNPSSAD	300
Db	241	QGGITGVLTQKLMKILNALVQMMQGGGLGGGNGAQGGSGAAGNAPASGANGPQNPSSAD	300
Oy	301	DOSSGQNNLOSQIMDVKEVVOILLQOMLAQNGSGQSTQPM	344
Db	301	DOSSGQNNLOSQIMDVKEVVOILLQOMLAQNGSGQSTQPM	344

RESULT 4  
US-09-879-248-15

Query Match	100.0%;	Score 1756;	DB 9;	Length 344;
Best Local Similarity	100.0%;	Pred. No. 6.4e-117;		
Matches 344;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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301 DOSSGONNLOSQIMDVKEVWQIQMLAQNNGSSQOSTSTQPM 344
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Query Match 100.0%; Score 1756; DB 9; Length 344;

Qy	301	D	S	S	G	G	N	N	I	S	O	I	M	D	V	K	E	V	O	I	I	Q	M	L	A	A	N	G	S	Q	O	S	T	O	P	M	344
Db	301	D <td>S <td>S <td>G <td>G <td>N <td>N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	S <td>S <td>G <td>G <td>N <td>N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	S <td>G <td>G <td>N <td>N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	G <td>G <td>N <td>N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	G <td>N <td>N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	N <td>N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	N <td>I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	I <td>S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	S <td>O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	O <td>I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	I <td>M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	M <td>D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	D <td>V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	V <td>K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	K <td>E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	E <td>V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	V <td>O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	O <td>I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	I <td>I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	I <td>Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td></td>	Q <td>M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td></td>	M <td>L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td></td>	L <td>A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td></td>	A <td>A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td></td>	A <td>N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td></td>	N <td>G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td></td>	G <td>S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td></td>	S <td>Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td></td>	Q <td>O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td></td>	O <td>S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td></td>	S <td>T <td>O <td>P <td>M <td>344</td> </td></td></td></td>	T <td>O <td>P <td>M <td>344</td> </td></td></td>	O <td>P <td>M <td>344</td> </td></td>	P <td>M <td>344</td> </td>	M <td>344</td>	344

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; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-09-766-348-7

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<b>QY</b>	<b>181</b>	GGAAGG	VGGAGG	AGDGG	SGAAGC	AGANGA	DGNGV	NGANGP	NAGDVN	GANGADD	GSDD	240
<b>Db</b>	<b>181</b>	GGAAGG	VGGAGG	AGDGG	SSGAAG	AGANGA	DGNGV	NGANGP	NAGDVN	GANGADD	GSDD	240

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QY 241 QGGITGVLOKLMKILNALVOMMOGGGLGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Db 241 QGGITGVLOKLMKILNALVOMMOGGGLGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
QY 301 DOSSGQNNLOSQIMDVYKEVVQIILOQMLAONGSGSQSTSTQPM 344
Db 301 DOSSGQNNLOSQIMDVYKEVVQIILOQMLAONGSGSQSTSTQPM 344

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## RESULT 7

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US-10-034-158-7
; Sequence 7, Application US/10034158
; Publication No. US20030028918A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: METHOD OF IMPARTING DROUGHT RESISTANCE TO PLANTS
; FILE REFERENCE: 21829/230
; CURRENT APPLICATION NUMBER: US/10/034,158
; CURRENT FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 09/597,840
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 09/013,587
; PRIOR FILING DATE: 1998-01-26
; PRIOR APPLICATION NUMBER: 60/036,048
; PRIOR FILING DATE: 1997-01-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-034-158-7

```

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Query Match 100.0%; Score 1756; DB 14; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
Db 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDANNQDPMQALMOLLE 120
Db 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDANNQDPMQALMOLLE 120
QY 121 DLVLTALRALHMQPGGNDKNGVGVANGAKGAGGGGLAELQEIQLIQLGGGAGA 180
Db 121 DLVLTALRALHMQPGGNDKNGVGVANGAKGAGGGGLAELQEIQLIQLGGGAGA 180
QY 181 GGAGGIVGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
Db 181 GGAGGIVGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 241 QGGITGVLOKLMKILNALVOMMOGGGLGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Db 241 QGGITGVLOKLMKILNALVOMMOGGGLGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
QY 301 DOSSGQNNLOSQIMDVYKEVVQIILOQMLAONGSGSQSTSTQPM 344
Db 301 DOSSGQNNLOSQIMDVYKEVVQIILOQMLAONGSGSQSTSTQPM 344

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## RESULT 8

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US-10-010-390-11
; Sequence 11, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS
; FILE REFERENCE: 21829/111

```

```

; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Ralstonia solanacearum
US-10-010-390-11

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```

Query Match 100.0%; Score 1756; DB 14; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
Db 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDANNQDPMQALMOLLE 120
Db 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKQAPQSANKTGNVDANNQDPMQALMOLLE 120
QY 121 DLVLTALRALHMQPGGNDKNGVGVANGAKGAGGGGLAELQEIQLIQLGGGAGA 180
Db 121 DLVLTALRALHMQPGGNDKNGVGVANGAKGAGGGGLAELQEIQLIQLGGGAGA 180
QY 181 GGAGGIVGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
Db 181 GGAGGIVGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 241 QGGITGVLOKLMKILNALVOMMOGGGLGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
Db 241 QGGITGVLOKLMKILNALVOMMOGGGLGGNOAGSGSKGAGNAPASGANPGANQPSAD 300
QY 301 DOSSGQNNLOSQIMDVYKEVVQIILOQMLAONGSGSQSTSTQPM 344
Db 301 DOSSGQNNLOSQIMDVYKEVVQIILOQMLAONGSGSQSTSTQPM 344

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## RESULT 9

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US-10-387-806-27
; Sequence 27, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:

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; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-387-806-27

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## RESULT 10

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US-10-387-806-27
; Sequence 27, Application US/10387806
; Publication No. US20030182683A1
; GENERAL INFORMATION:
; APPLICANT: Laby, Ron J.
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS ELICITING A
; FILE REFERENCE: 19603/3187
; CURRENT APPLICATION NUMBER: US/10/387,806
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: 60/048,109
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: 09/086,118
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-387-806-27

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Query Match 100.0%; Score 1756; DB 14; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60
Db 1 MSVGNISPSNLPGLQNLNTNTNSQSGSVODLIKQVEKDLITLITIALVQRAQASAG 60

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QY 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKSOAPPSANKTGVNDANNODPMQALMOLLE 120
| | | | |
Db 61 GNTGNTGNAPAKDGNANAGANDPSKNDPSKSOAPPSANKTGVNDANNODPMQALMOLLE 120
QY 121 DLVYLKLAALHMOOPGNDKNGVGVANGAGAGGQGLAEALOEIIEQIILQOLGGGGAGA 180
| | | | |
Db 121 DLVYLKLAALHMOOPGNDKNGVGVANGAGAGGQGLAEALOEIIEQIILQOLGGGGAGA 180
QY 181 GGAGGCVGAGAGDGGSGAGAGANGADGGNGVNGONANGPONAADVNGANGADDGSED 240
| | | | |
Db 181 GGAGGCVGAGAGDGGSGAGAGANGADGGNGVNGONANGPONAADVNGANGADDGSED 240
QY 241 QGGGLTVLQKLMKTLINLVOMMOQGGGLGGGNOAGGSGAGANASPASGANPGANOPGSAD 300
| | | | |
Db 241 QGGGLTVLQKLMKTLINLVOMMOQGGGLGGGNOAGGSGAGANASPASGANPGANOPGSAD 300
QY 301 DOSSGONNLQSGOIMDVVKEVVOIILQOMLAONGSGSQSTSTQPM 344
| | | | |
Db 301 DOSSGONNLQSGOIMDVVKEVVOIILQOMLAONGSGSQSTSTQPM 344

RESULT 10
US-10-441-736-15
; Sequence 15, Application US/10441736
; Publication NO. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: 09/431,614
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 15
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Pseudomonas solanacearum
US-10-441-736-15

Query Match 100.0%; Score 1756; DB 15; Length 344;
Best Local Similarity 100.0%; Pred. No. 6,4e-117;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 11
US-10-282-122A-64786
; Sequence 64786, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zykand, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 64786
; LENGTH: 615
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64786

Query Match 17.2%; Score 302; DB 15; Length 615;
Best Local Similarity 33.0%; Pred. No. 2,2e-13;
Matches 97; Conservative 15; Mismatches 104; Indels 78; Gaps 10;
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Job time : 65.4095 secs

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